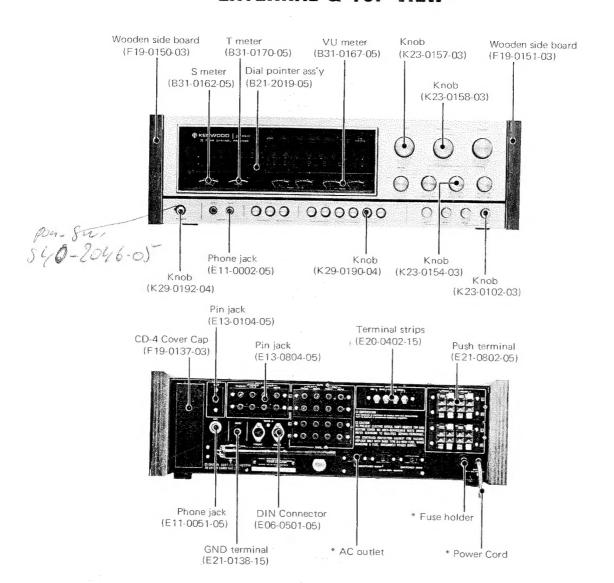
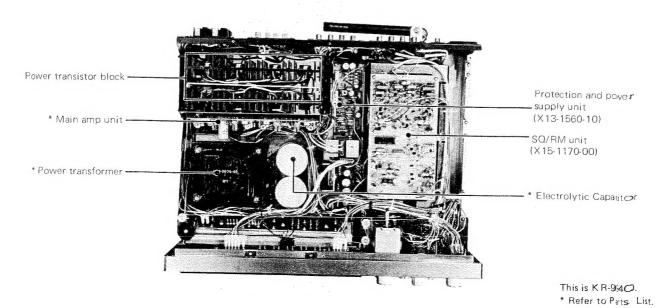
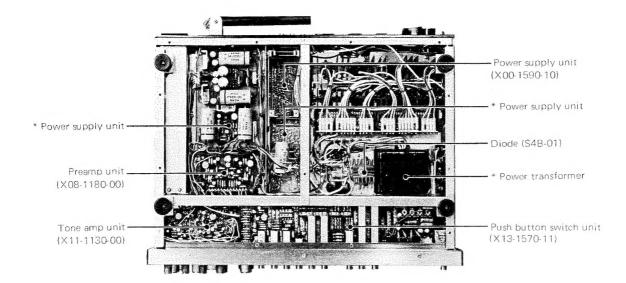
EXTERNAL & TOP VIEW



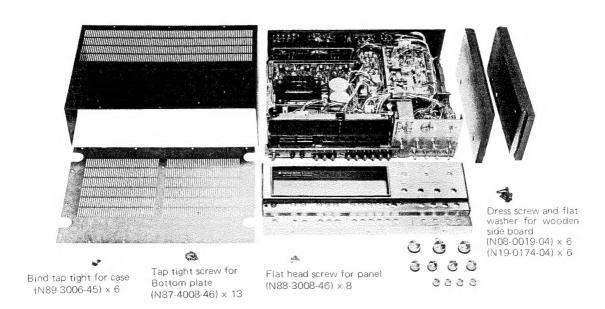


3527

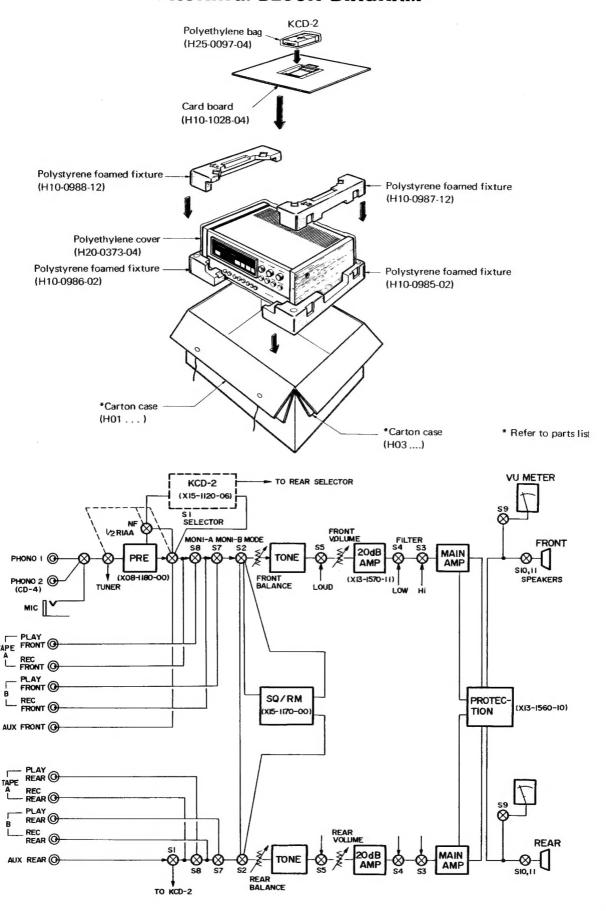
BOTTOM VIEW/DISASSEMBLY



* Refer to Parts List.



PACKING/BLOCK DIAGRAM



CIRCUIT DESCRIPTION

1. RM Decoder Circuit

The encoded input signals of LT and RT are fed to the No. 4 and No. 2 terminals of SQ/RM unit, respectively. The signals are then separated into 4 signals, each having 90° phase difference, by the phase shifter consisting of Qy1 \sim 14. The phase shifter forms a circuit common to SQ and RM. To achieve the matrix effect more easily, only the RB component is matrix processed by Ry59 and Ry60 after being phase inverted by the inverter Qy16.

The 4 signals in RM 4-channel mode are amplified up to the AUX level by Qy23 \sim 26 and are fed as output signals.

2. SQ Decoder Circuit

The encoded input signals of LT and RT are fed to the No. 4 and No. 2 terminals of SQ/RM unit, respectively, and then phase shifted by 90° by the phase shifter Qy1 \sim 14. The transistor Qy15 is an inverter for LF signal in SQ mode. The signals are separated by the SQ matrix composed of Ry53 and Ry54, which are then amplified by the SQ amplifier Qy17 \sim 20.

3. Function of SQ Logic

This circuit is a full logic circuit comprising a variable blend system front-back logic (F/B) and an attenuation system waveform matching logic (W/M).

3-1. Front-back Logic

The conventional gain control system front-back logic circuit using electronic attenuator has such a disadvantage that the wanted signals tend to be suppressed together with the crosstalk signals. In contrast with this, the Variable Blend System has a feature to cancel only the crosstalk component by mixing L and R signals, since the crosstalk signals on the front and back are in opposite phase relationship for each other.

The LF and RF signals are blended by a certain amount with Ry97 (43 k α), while the LB and RB signals are automatically blended in response to the original sound field.

Front blend (10% blend)
...........LF—RF separation: 20 dB
Back blend (20% ~ 80% blend)
...LB-RB separation: 3 dB ~ 14 dB (variable)

3-2. Waveform Matching Logic

This circuit improves the crosstalk among the 4-channel signals for the front-back logic. The 4 signals which have been processed in SQ matrix are compared with each another by the logic signal detecting IC CX-049 to obtain waveform matching logic signal for each of the

front and back channels. Utilizing this signal, the gain control IC CX-718 controls the output gain of each channel so that the playback sound field similar to the original sound field can be obtained.

4. Function of Logic Circuit

Front-back Logic

CX-049 is a logic detecting IC. With the 4 signals, which have been processed through the SQ matrix, fed to the IC CX-049, it produces front-back trigger signals and waveform matching trigger signals. The LB and RB signals are blended variably within a range of 20% \sim 80%. When the front signal is larger than the back signal, a negative voltage generates at the No. 24 terminal where the voltage at Qy35 collector rises while the impedance between the source and drain of Qy43 decreases, thus increasing the amount of blend. The voltages at the emitters of Qy31 and Qy32 in the gain control amplifier are regulated by Qy36 and Qy38 operated by the comparison value of the front-back logic signal.

5. Function of Waveform Matching Logic

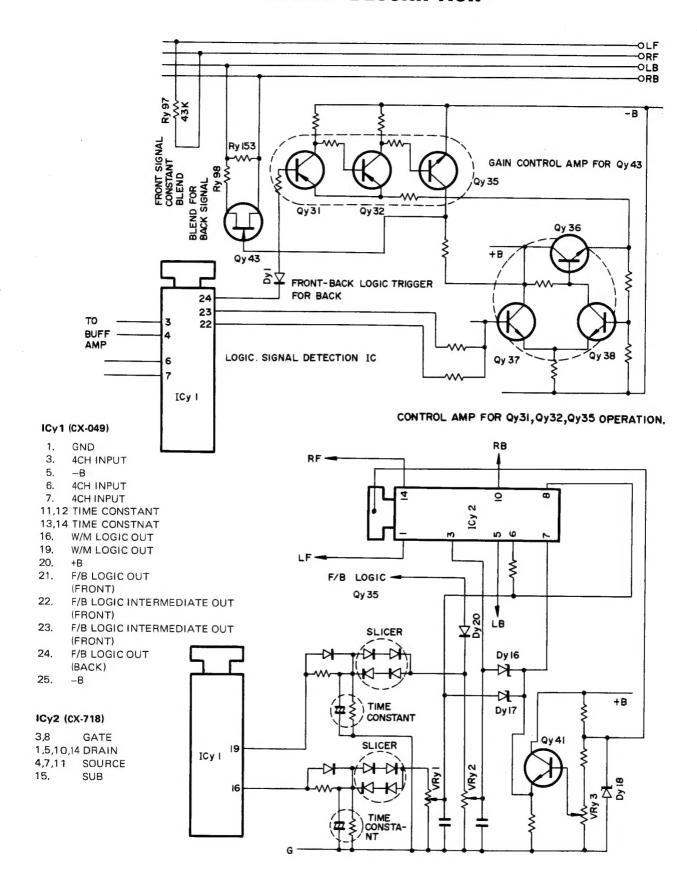
As in the case of the front-back logic, a logic signal is detected by CX-049, controlling the channel crosstalk and improving the points of sound field according to the strength (point of sound) of the signal for each channel. The No. 16 and No. 19 terminals of CX-049 are normally kept at 0 V where the attenuation of CX-718 is set to about $4 \sim 5$ dB (adjusted by VRy3).

The logic start timing and the level of W/M logic signal detected at No. 16 and No. 19 terminals are controlled by the time constant circuit and the diode slicer.

CX-718 is composed of P channel FET. When a positive voltage is fed to the gate, the impedance between the drain and source is increased, and when a negative voltage is fed it is decreased, thus attenuating the 4-channel signals. The attenuation range of CX-049 is about 20 dB.

VRy1	Adjust for front WIM logic
	Adjust for back W/M logic
VRy3	Adjust for W/M logic setting level

CIRCUIT DESCRIPTION



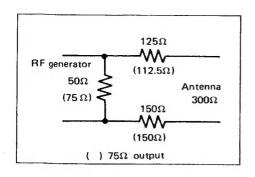
ADJUSTMENTS

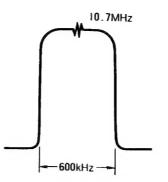
BEFORE ADJUSTMENT

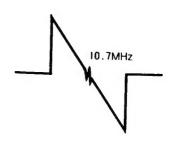
- * Tuning dial is set to the proper point corresponding to no radio stations.
- * The sweep and the r.f. generator are set to the lowest response possible on oscilloscope.
- * When connecting the r.f. generator to the antenna terminal using the dummy antenna refer to figure 1.
- * Use the insulated screwdriver adjusting the i.f.t.
- * SELECTOR is FM position.
- * FM MUTING is OFF position unless it is required.
- * Test point shown in the schematic diagram.
- * For the "tracking adjust.", repeat several times and confirm the reception of broadcasts.

NO.	ALIGN	TEST EQU	JIPMENTS	RECEIVER	OUTPUT	ADJUSTMENT	DEMANUE
NO.	ALIGN	CONNECTION SETTING		SETTING	INDICATOR	POINTS	REMARKS
FM	SECTION					<u> </u>	
1	IFT	SWEEP to TP1 via. 5pF cap.	10.7 MHz	Non-station	SCOPE to TP2 via 100 kΩ resist.	Tg4, 5, 8	Maximum deflection (Fig. 2)
2	DIS- CRIMINATOR	Same	Same	Same	VTVM & SCOPE to REC jack	Tg9	S-response and its symmetry on each side of 10.7 MHz center frequency (Fig. 3)
3	TRACKING	RF-SG to ANT via, dummy ant.	90 MHz 75 kHz (Dev.) 400 Hz (Mod.)	90 MHz	Same	Tg1 ∼3	Maximum deflection
4	TRACKING	Same	105 MHz 75 kHz (Dev.) 400 Hz (Mod.)	105 MHz	Same	CTg1 ∼3	Same
5	AF OUTPUT	Same	100 MHz 75 kHz (Dev.) 400 Hz (Mod.) 60 dB (Input)	100 MHz	Same	VRg3	Output is 1.0V
6	SCA	AG to TP3	67 kHz	Non-station	VTVM & SCOPE to TP4	Tg12	Minimum deflection
7	SEPARATION	RF-SG to ANT via. dummy ant. MPX-SG to RF- SG ext. jack.	95 MHz 67.5 kHz (Dev.) 400 Hz (Mod.) 60 dB (Input) L or R (SELECTOR)	95 MHz	VTVM & SCOPE to REC jack	VRg4	Minimum deflection
8	BEACON	Same	95 MHz 40 kHz (Dev.) 400 Hz (Mod.) 60 dB (Input)	95 MHz	Stereo Indicator	VRg5	Indicator lights.
AM	SECTION						
1	IFT	RF-SG to Ant.	1,000 kHz 400 Hz (30% Mod.)	1,000 kHz	VTVM & SCOPE to REC jack	Tg10, 6, 7	Maximum deflection
2	TRACKING	Same	600 kHz 400 Hz (30% Mod.)	600 kHz	Same	Tg11 Ferrite ANT	Same
3	TRACKING	Same	1,400 kHz 400 Hz (30% Mod.)	1,400 kHz	Same	CTg4, 5	Same
4	S-METER	Same	1,000 kHz 400 Hz (30% Mod.)	1,000 kHz	S meter	_	Confirm the meter deflection at 4 .5

ADJUSTMENTS



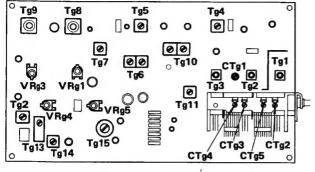


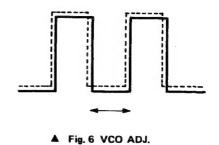


▲ Fig. 1 DUMMY ANT

▲ Fig. 2 IF WAVEFORM

▲ Fig. 3. DISCRIMINATOR WAVEFORM





▲ Fig. 5 ADJ. POINT

NO.	ALIGN	TEST EQU	IPMENT	OUTPUT	ADJUSTMENT	25144240
NU.	ALIGN	CONNECTION	SETTING	INDICATOR	POINTS	REMARKS
*CD	4 SECTION			-		
	Turn th	e balance on the fro	ont panel and defe	at the front signal :	so that the back sign	nal only can be heard.
1	SEPARATION	Playback TEST RECORD	RG-1256 BAND-1	_	VRz9	The signal from CH2 (LEFT-BACK) car be reduced to a minimum.
2	SEPARATION	Playback TEST RECORD	RG-1256 BAND-3	_ IVP=10		The signal from CH4 (RIGHT-BACK) can be reduced to a minimum.
		Turn VRz11 to fi	ıll clockwise posit	ion.		
3	30kHz LEVEL	Playback TEST RECORD	RG-1256 BAND-9		VRz11	Turn clockwise one indication mark from the point where tone quality will suddenly change.
4	VCO (Fig. 6)	Playback TEST RECORD	RG-1256 BAND-9	SCOPE to TPz1	VRz1	Waveform on the scope does notshift, when the record signal is appliedor not.
5	нс	This adjustment of potentiometer VI		y use of the test re	cord. If you can't g	et the test equipment, don't touch
6	EXPAND	Playback TEST RECORD	RG-1256 BAND-8	VTVM to TPz4	VRz3	Meter indicates -15 dBm (138 mV) 0 dBm = 1W/600Ω = 0.775V
7	ANRS	AG to TPz4	700 Hz 15 dBm (138 mV)	VTVM to TPz8	_	Memorize the output level.
8	ANRS	AG to TPz4	700 Hz 25 dBm (44 mV)	VTVM to TPz8	VRz4	Meter indicates 15 dB lower than the memorized level. Note; after adjustment, switch the AG output at —15dBm (138mV) again, and confirm that the output level is exactly raised by 15 dB.

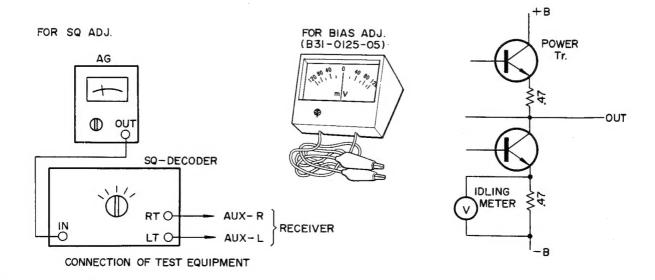
Circuit description for CD-4 gives you from KR9340 \sim 7340 service manual (B51-0214-00)

^{*} Adjust the same adjustments for the other ch except "SEPARATION" adj.

ADJUSTMENTS

NO.	ALIGN	TEST EQUIPMENT		OUTPUT	ADJUSTMENT		
VU.	ALIGN	CONNECTION SETTING		INDICATOR POINTS		REMARKS	
AU	DIO SECTION			1		+	
1	BIAS	AG to Aux.	10 kHz	SCOPE across dummy load	VRe1 ~ 4	Waveform has not crossover distortion.	
2	BIAS	_	-	IDLING METER across the emitter resistor of the power transistor	VRe1 ∼4	Meter indicates around 25mV.	
	Turn the VOLU	ME to the output le	vel 6V/8 Ω at the s	peaker terminal			
3	PROTECTION	Receive the inter	station noise.		VRp1	Protection relay operates when the speaker terminal shorted.	
	<u> </u>	METER LEVEL	on the front pane	I: ON			
4	*VU-METER	AG to Aux.	1 kHz 200 ~ 300 mV	SCOPE and VTVM across the dummy	VRh1 ~ 4	VU meter indicates 0VU when output level of KR-9940 is $20V/8\Omega$. (KR-8840 $17V/8\Omega$)	
		Balance and tone	control; center				
5	RM	AG to Aux. R-ch or L-ch.	1 kHz 200 mV	VTVM across the dummy	-	Confirm that the output level is as table 1. (next page)	
	S1; SELECTOR to full clockwise		E → SQ, BALANG AG output level so	CE and VOLUME -	→ Center, turn pot	d this adjustments. entiometer VRy1 ~3 / at LF or RF of "ENCODER".	
6	sa	Set SELECTOR of ENCODER to 4 ch	1kHz 1V output at SP terminal	VTVM to SP terminal of LF.	VRy3	Meter indicates 0.7V (-3dB)	
7	SQ	Set SELECTOR of ENCODER to LF	same	VTVM to SP terminal of LB and RB	VRy1	Meter indicates 0.32V (-9dB) respectively.	
8	sa	Set SELECTOR of ENCODER to LB	same	VTVM to SP terminal of LF and RF	VRy2	Meter indicates 0.32V (-9dB) respectively.	

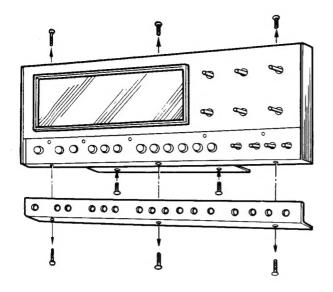
^{*} Make this adjustment by one channel.

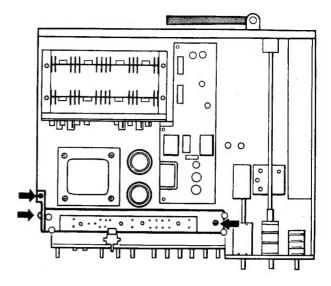


DISASSEMBLY FOR ADJUSTMENTS

The panel and dress panel are fixed by screws. When take off the panel, before take off the panel pull out the knobs (not including pushbutton), take off dress panel.

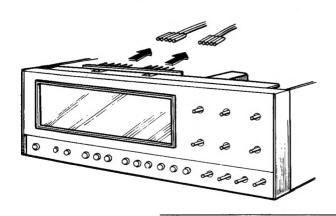
Dial back board block is fixed by 3 screws. Before remove screws from chassis take off the dial cord from small pulley.

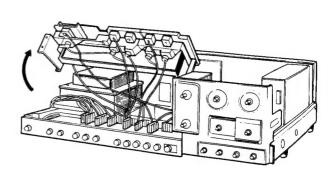


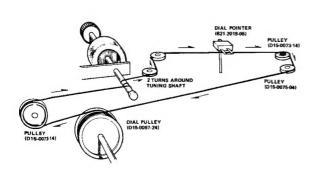


Pin assembly connecting to pilot lamp pc board is pulled out as figure. Forced pull breaks off the pc board and pin assembly. Do it carefully.

Raise the dial back board block when check the pushbutton pc board.







MODE (INH2, 200mV) output level (2V/8Q = 0 dB)

Lr Rr -7.7±1.5dB

AUX Lch

Ln 0±1.5dB

Rr -7.7±1.5dB

Rr -7.7±1.5dB

Rr -7.7±1.5dB

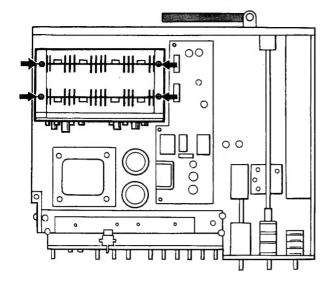
▲ DIAL CORD STRINGING

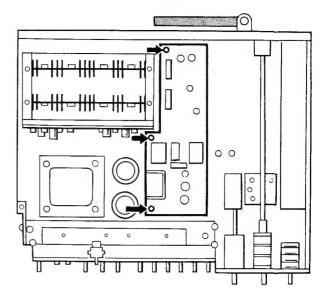
▲ Table 1

DISASSEMBLY FOR ADJUSTMENTS

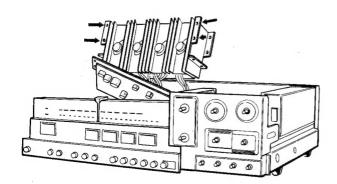
Main amp block (main amp unit and heat sink) is fixed by 4 screws. Remove them, take out main amp block.

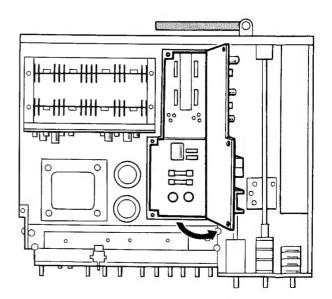
Power supply unit (X00-1370-10) has 2 fuses. When replace them, remove 3 screws on the protection unit (X13-1560-10) and turn the pc board as figure.





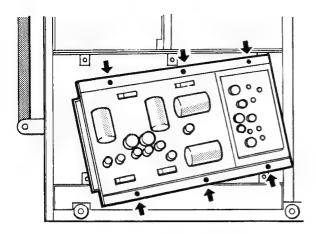
When check the pc board or power transistor remove 4 screws fixing the pc board.



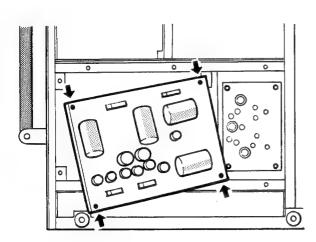


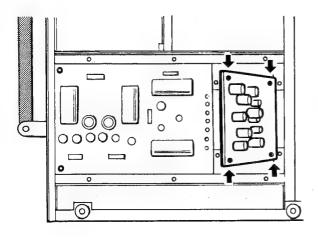
DISASSEMBLY FOR ADJUSTMENTS

Remove the 6 screws on the pc board mounting hardware, when check the TUNER unit.

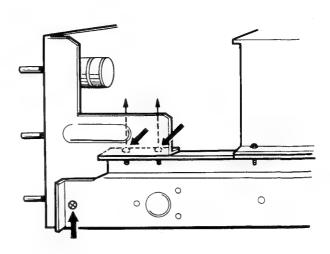


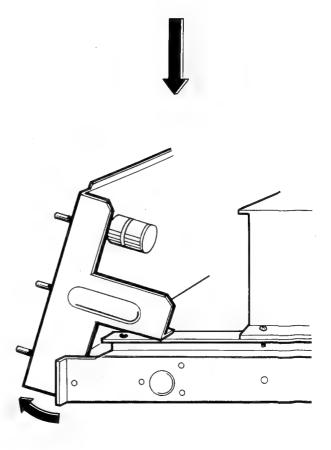
Remove the 4 screws on the pc board respectively, when check the power supply unit and the preamp unit.



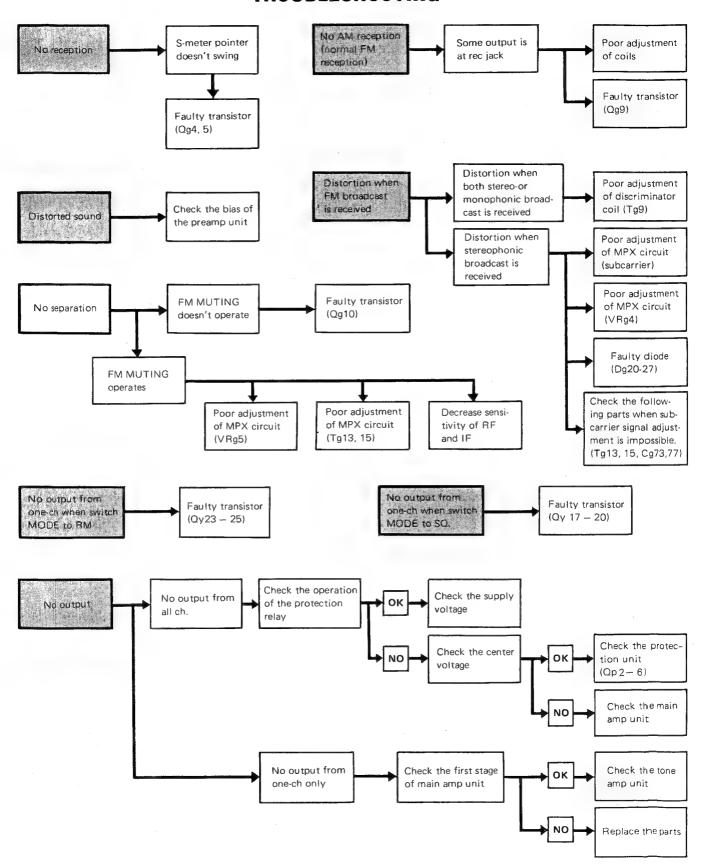


When take off the tone amp unit remove screws of right side. And then pulling the sub panel forward, take out the tone amp unit.

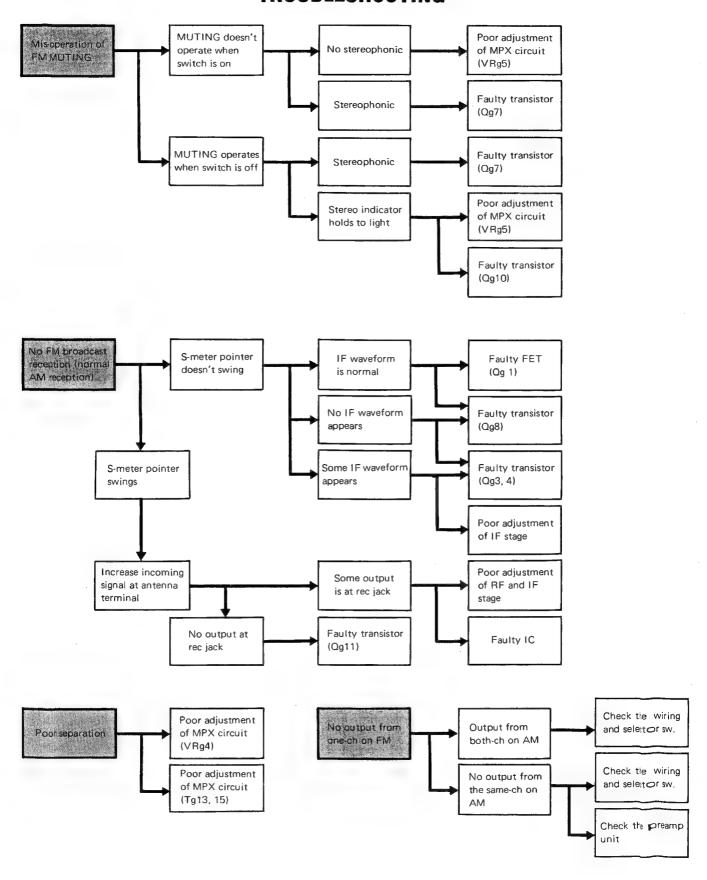




TROUBLESHOOTING



TROUBLESHOOTING



TOTAL PARTS LIST

Ref. No.	Parts No.	Description	Re- marks						
_	A01-0217-12	Case							
-	A13-0069-01	Frame ass'y							
-	A13-0070-01	Frame (A)							
-	A13-0071-02	Frame (B)							
-	A13-0072-03	Frame (C)							
-	A33-0024-03	Reflector							
-	A40-0122-02	Bottom plate							
	B07-0102-04	Push Switch Ring (pushbutton)							
_	B07-0103-04	Push Switch Ring (pushbutton)							
-	B07-0104-04	Push Switch Ring (pushbutton)							
! —	B21-2019-05	Dial pointer ass'y							
_	B23-3007-14	Indication acryl board							
	858-0172-04	Volatile matter caution card							
_	D01-0009-15	Flywheel							
_	D20-0099-13	Dial shaft ass'y							
_	F19-0150-03	Wooden side board (L)							
_	F19-0151-03	Wooden side board (R)							
_	J02-0049-14	Leg × 4							
_	J30-0101-04	Spacer (for leg) x 4							
		3, 10 (10 (10 (10 (10 (10 (10 (10 (10 (10							
	K23-0102-03	Knob (TONE) x 4							
-	K23-0133-04	Knob (Balance outside) (KR-8840)							
-	K23-0154-03	Knob (MODE, BALANCE) x 4							
		(KR-9940)							
_	K23-0154-03	Knob (MODE, BALANCE) x 2							
		(KR-8840)							
-	K23-0157-03	Knob (TUNING)							
_	K23-0158-03	Knob (SELECTOR, VOLUME) x2							
-	K23-0159-03	Knob (Balance inside) (KR-8840)							
	K29-0190-04	Knob (pushbutton switch) x 9							
-	K29-0192-04	Knob (POWER)							
	T90-0002-05	FM indoor antenna							
		SS'Y SECTION							
_	A20-0907-01	Panel (KR-9940)							
	A20-0909-01	Panel (KR-8840)							
	A48-0016-05	Panel side plate x 2							
_	B01-0079-03	Panel escutcheon							
_	J19-0363-03	Dress plate							
	J19-0364-03	Front glass holder							
	DIAL BAC	K BOARD SECTION							
-	A30-0081-12	Dial back board							
_	819-0153-04	White filter							
	B20-0288-23	Dial calibrations							
_	B31-0167-05	VU meter x 2	ļ						
~	B31-0171-05	T.S. meter ass'y (KR-9940)	- 1						
-	B31-0162-05	Signal meter							
- 4	B31-0170-05	Tuning meter (KR-9940)							
	Lample								
C107	CE04W0F221	Electrolytic 220µF 3.15WV							
C108~	CE04W1H010	Electrolytic 1µF 50WV	ł						
111	245 225 : :								
	D15-0073-14	Pulley (29φ)							

	1		,
Ref. No.	Parts No.	Description	Re- marks
	D45 0075 04	Bullow (144) vs 2	
_	D15-0075-04	Pulley (14φ) x 3	
_	F30-0024-14	Reinforce plate	
l _	J19-0365-14	Dial calibrations stopper	
l <u> </u>	J19-0366-03	Meter stopper (KR-8840)	
_	J19-0371-03	Meter stopper (KR-9940)	
			L
ļ	REAR	PANEL SECTION	
-	B42-0009-04	Passed sticker	
C301	CQ93M1H273J	Mylar 0.027μF ±5%	
-	CK45F1E403Z	Ceramic 0.04µF +80%,-20%	
_	E06-0501-05	DIN connector socket x 2	
	E11-0051-05	Phone jack (MIC)	
_	E13-0104-05	Pin jack (1P)	
_	E13-0804-05	Pin jack (8P) x 3	
_	E20-0402-15	Terminal strips (4P)	
_	E21-0138-15	GND terminal	
_	E21-0802-05	Push terminal (8P) x2	
_	E90-0022-05	Shield cap x 2	
_	F19-0137-03	CD-4 cover cap	
_	J21-0806-14	Antenna mounting hardware	
	021 0000 14	Antenna mounting hardware	
-	L19-0009-05	Balun transformer	
man4 coc	BD44BV051011	Contrar 4001 C trai	
R301,302	i .	Carbon 100kΩ ±5% 1/4W	l
R303,304 R305,306	l .	Carbon 390k Ω $\pm 5\%$ 1/4W Carbon 100k Ω $\pm 5\%$ 1/4W	
R305,306			
R309	PD148 Y 2E394J	Carbon 390k Ω ±5% 1/4W Carbon 15k Ω ±5% 1/4W	
	. 51451261555	JULIUS 10 10 17 17 17 17 17 17 17 17 17 17 17 17 17	
_	T90-0026-05	Ferrite antenna	
	POWER	SUPPLY SECTION	
C101,102	C90-0189-05	Electrolytic 1500μF 50WV	
C104,105	CP02B2J103M	Oil filled 0.01µF ±20%	
R102	RC05GF2H330J	Carbon 33Ω ±5% 1/2W	
D101		S4B-01	1
-	J20-0263-33	Power transformer mounting	
		plate	
-	W01-0063-00	CD-4 record	
_	X13-1570-11	Pushbutton switch unit	
	X15-1120-06	CD4 unit (KR-9940)	ł
_	X90-1150-10	Main amp unit ass'y (KR-9940)	
_	X90-1150-11	Main amp unit ass'y (KR-8840)	
-	H10-0985-02	Polystyrene foamed fixture	
_	H10-0986-12	Polystyrene foamed fixture	
_	H10-0987-12	Polystyrene foamed fixture	
-	H10-0988-12	Polystyrene foamed fixture	- 1
-	H10-1031-04	Buffer fixture	
-	H10-1028-04	Carton board	- 1
-	H25-0078-00	Polyethylene bag	ļ
-	H20-0373-04	Polyethylene cover	
			1
			ļ

Ref. No.	U.S.A. (K)	Canada (P)	PX (U)	Australia (X)	Europe (W)	Scandinavia (L)	England (T)	Other area (M)	AUDIO CLUB (W2)	Description
	A21-0203-02	A21-0203-02	A21-0203-02	A21-0203-02	A21-0203-02	A21-0203-02	A21-0203-02	A21-0203-02	A21-0157-12	Dress panel
-	A70-0080-05	A70-0080-05	A70-0071-05	A70-0071-05	>A70-0071-05 _ <i>J33</i> 0 ~ もころり セ	A70-0071-05	A70-0071-05 らし.	A70-0071-05	A70-0071-05	Pilot lamp ass'v Sr. News
_	B42-0359-04x2	B42-0359-04	_	_ (ist Ste S-C.	~17134	-	-	_ ///	UL caution card
	B42-0517-04	B42-0517-04	_	_ <i>'</i>	_	-	_	_		Fuse caution card (KR-9940)
	B42-0552-04	B42-0552-04	_	_	-	-	_	_		Fuse caution card (KR-8840)
-	B46-0002-00	B46-0021-00	B46-0022-00	_	-	-	_	-		Warranty card
-		_	B46-0023-00	_	-	_	_	-	_	Warranty card
–	B50-1292-00	B50-1292-00	B50-1292-00	B50-1292-00	B50-1292-00	B50-1292-00	B50-1294-00	B50-1292-00	B50-1343-00	Instruction Manual (KR-9940)
_	B50-1295-00	B50-1295-00	B50-1295-00	B50-1295-00	B50-1295-00	B50-1295-00	B50-1296-00	B50-1295-00	B50-1344-00	Instruction Manual (KR-8840)
_	B50-1042-00	B50-1042-00	B50-1042-00	B50-1042-00	B50-1042-00	B50-1042-00	B50-1057-00	B50-1042-00	850-1042-00	Instruction Manual (KCD-2)
-	B52-0176-00	B52-0176-00	B52-0176-00	B52-0176-00	B52-0176-00	B52-0176-00	B52-0176-00	B52-0176-00	B52-0184-00	Schematic diagram (KR-9940)
	B52-0177-00	B52-0177-00	B52-0177-00	B52-0177-00	B52-0177-00	B52-0177-00	B52-0177-00	B52-0177-00	B52-0185-00	Schematic diagram (KR-8840)
-	B58-0043-00	B58-0043-00	_	_	-		_	_	-	Carton case caution card
-	-	_	B58-0139-00	B58-0003-00	B58-0156-00	_	B58-0003-00	B58-0003-00	B58-0156-00	Power supply caution card
-	_	_	B58-0146-00	B58-0108-00	B58-0108-00	_	B58-0108-00	B58-0108-00	B58-0108-00	Spare fuse caution card
-	-	-	B58-0144-00	B58-0101-00	B58-0157-00	-	B58-0101-00	B58-0101-00	B58-0157-00	Power voltage selector caution card
-	_]	_		-	B58-0176-00	B58-0176-00	_	-	B58-0176-00	DE-EMPHASIS caution card
_	-	-	B59-0018-00	-	_	_	_	-	_	KENWOOD servicestation's list
					PANI	EL ASS'Y				
_	A20-0892-11	A20-0892-11	A20-0892-11	A20-0892-11	A20-0892-11	A20-0892-11	A20-0893-11	A20-0892-11	A20-0937-01	Panel ass'y (KR-9940)
-	A20-0894-11	A20-0894-11	A20-0894-11	A20-0894-11	A20-0894-11	A20-0894-11	A20-0895-11	A20-0894-11	A20-0938-01	Panel ass'y (KR-8840)
-	B10-0172-04	B10-0172-04	B10-0172-04	B10-0172-04	B10-0172-04	B10-0172-04	В10-0173-04	B10-0172-04	B10-0180-04	Front glass (KR-9940) Front glass (KR-8840)
_	B10-0174-04	B10-0174-04	B10-0174-04	B10-0174-04	B10-0174-04	B10-0174-04	B10-0175-04	B10-0174-04	B10-0181-04	Front glass (Kn-8640)
					DIAL BACK	BOARD SECTION	N	1	I	
_	A70-0082-05	A70-0082-05	A70-0074-05	A70-0074-05	A70-0074-05	A70-0074-05	A70-0074-05	A70-0074-05	A70-0074-05	Pilot lamp ass'y
					REAR P	ANEL SECTION		1	,	Γ
_	A23-0552-02	A23-0552-02	A23-0553-02	A23-0554-02	A23-0555-02	A23-0556-02	A23-0554-02	A23-0553-02	A23-0555-02	Rear panel (KR-9940)
-	A23-0557-02	A23-0557-01	A23-0558-02	A23-0559-02	A23-0560-02	A23-0561-02	A23-0559-02	A23-0558-02	A23-0560-02	Rear panel (KR-8840)
_	B40-1127-04	B40-1128-04	B40-1129-04	B40-1130-04	B40-1132-04	B40-1133-04	B40-1131-04	B40-1130-04	B40-1199-04	Model name plate (KR-9940)
_	B40-1134-04	B40-1135-04	B40-1136-04	B40-1137-04	B40-1139-04	B40-1140-04	B40-1138-04	B40-1137-04	B40-1200-04	Model name plate (KR-8840)
l_	_		_		B42-0024-04	<u> </u>			_	SEV sticker
-	- 1	_	_		CQ93M1H272J	СФ93М1Н272J		_	CQ93M1H272J	Mylar 0.0027μF ±5%
-	_	_	D32-0075-04	D32-0075-04	D32-0075-04	_	D32-0075-04	D32-0075-04	D32-0075-04	Switch stopper
_	E08-0221-05	E08-0221-05	E08-0221-05	E08-0221-05	E08-0221-05	_	E08-0221-05	E08-0221-05	E08-0221-05	AC outlet x 3
-	E30-0181-05	E30-0181-05	E30-0034-05	E30-0185-05	E30-0176-05	E30-0292-05	040-0304-05	E30-0034-05	E30-0176-05	Power cord
)										

DESTINATION LIST

	7	T		,	,					
Ref. No.	U.S.A. (K)	Canada (P)	PX (U)	Australia (X)	Europe (W)	Scandinavia (L)	England (T)	Other area (M)	AUDIO CLUB (W2)	Description
-	F05-4026-05	F05-4026-05	_	_	_	_	_	_	_	Fuse (4A) (KR-9940)
-		_	F05-3523-05	F05-3523-05	F05-3522-05	F05-3522-05	F05-3523-05	F05-3523-05	F05-3522-05	Fuse (3.5A) (KR-9940)
-	_	_	F05-7025-05	F05-7025-05	_	_	F05-7025-05	F05-7025-05	_	Fuse (7A) (KR-9940)
-		_	_	-	F05-8024-05	-	_		F05-8024-05	Fuse (8A) (KR-9940)
-	F05-6025-05	F05-6025-05	F05-6021-05	F05-6021-05	_	_	F05-6021-05	F05-6021-05		Fuse (6A) (KR-8840)
i –	_			_	F05-6321-05	_	_	. –	F05-6321-05	Fuse (6.3AT) (KR-8840)
-	_	_	F05-3022-05	F05-3022-05	_	-	F05-3022-05	F05-3022-05	_	Fuse (3.5A) (KR-8840)
-	_	_	_	_	F05-3121-05	F05-3121-05	_	_	F05-3121-05	Fuse (3.15AT) (KR-8840)
-	_	_	J13-0033-15	J13-0033-15	J13-0031-05	J13-0031-05	J13-0033-15	J13-0033-15	J13-0031-05	Fuse holder
-	J30-0112-04		_	_	_	_	_			Spacer x 3
-	J41-0034-05	J41-0034-05	J41-0034-05	J41-0024-15	J41-0017-05	J41-0017-05	J41-0024-05	J41-0034-05	J41-0017-05	Power cord bushing
_	_	_	S31-2001-05	S31-2001-05	S31-2001-05	_	S31-2001-05	S31-2001-05	S31-2001-05	Barrana
_	_	_	_	_	S31-2007-05	S31-2007-05	-	-	S31-2001-05	Power voltage selector switch DE-EMPHASIS switch
					POWER SI	JPPLY SECTION	Í			
-	C90-0145-05 x 2	C90-0145-05 x 2	CK45E3D103 PMU x 2	CK45E3D103 PMU x 2	CK45E3D103 PMU x 3	CK45E3D103 PMU x 3	CK45E3D103	CK45E3D103	CK45E3D103	Ceramic 0.01µF
1 – 1	_	F09-0033-05	F09-0033-05	-	F09-0033-05	F09-0033-05	PMU x 2	PMU x 2	PMU x 3	+100% -0%
	1 04 0075 05	x 2	x 2		x 3	x 3		_	F09-0033-05 × 3	Capacitor cap
_	L04-0075-05 L04-0076-05	L04-0075-05	L03-0109-05	L03-0109-05	L09-0148-03	L09-0149-05	L03-0109-05	L03-0109-05	L09-0148-05	Power transformer (KR-9940)
-	L04-0076-05	L04-0076-05	L03-0110-05	L03-0110-05	L09-0150-05	L09-0151-05	L03-0110-05	L03-0110-05	L09-0150-05	Power transformer (KR-8840)
-	RC05GF2H225K	RC05GF2H225K	_	_	-	_	-	_	-	Carbon 2.2M Ω \pm 10% 1/2W
S12	\$40-2037-05	S40-2037-05	S40-2046-05	\$40-2046-05	S40-2046-05	S40-2046-05	S40-2046-05	S40-2046-05	S40-2046-05	Push button switch (POWER)
-	X90-1160-10	X90-1160-10	X90-1160-10	X90-1160-10	X90-1160-61	X90-1160-61	X90-1160-10	X90-1160-10	X90-1160-61	Sub unit ass'y
-	X90-1170-10	X90-1170-10	X90-1170-10	X90-1170-10	X90-1170-61	X90-1170-61	X90-1170-61	X90-1170-10	X90-1170-61	Tuner & preamp (KR-9940)
-	X90-1180-10	X90-1180-10	X90-1180-10	X90-1180-10	X90-1180-61	X90-1180-61	X90-1180-61	X90-1180-10	X90-1180-61	Tuner & preamp (KR-8840)
_	H01-1284-14	H01-1285-14	H01-1285-14	H01-1285-14	H01-1285-14	H01-1285-14	H01-1286-14	H01-1285-14	H01-1338-04	Carton case (KR-9940)
-	H01-1287-14	H01-1288-14	H01-1288-14	H01-1288-14	H01-1288-14	H01-1288-14	H01-1289-14	H01-1288-14	H01-1339-04	Carton case (KR-9940)
-	_	H03-0392-14	_	H03-0392-14	H03-0392-14	H03-0392-14	H03-0393-14	H03-0392-14	H03-0412-04	Carton case (KR-9940)
l –	-	H03-0394-14	_	H03-0394-14	H03-0394-14	H03-0394-14	H03-0395-14	H03-0394-14	H03-0413-04	Carton case (KR-8840)
-	H25-0029-04	H25-0029-04	H25-0029-04	H25-0029-04	H25-0029-04	H25-0029-04	H25-0029-04	H25-0029-04	H25-0029-04	Polyethylene bag
			x 2	x 2	x 2		x 2	x 2	x 2	
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MAIN AMP ASSEMBLY (X90-1150-10)

Ref. No.	Parts No.	Description	Re- marks
		CAPACITOR	1
C1, 2	CQ93M1H104K	Mylar 0.1μF ±10%	
		RESISTOR	·
R9~16	R92-0115-05	Wire wound 0.47Ω ±10% 3W	Ι
	SEN	MICONDUCTOR	<u></u>
Q1~8	V04-0045-05	Transistor 2SD287	
D1~4	V11-0076-05	Diode 1S1555	ĺ
D5 ~8	V21-0012-05	Varistor STV-3H	
	MIS	SCELLANEOUS	
_	E02-0209-05	Transistor socket x 8	
-	E19-0401-05	Pin assembly (4P) x 4	
-	E19-0602-05	Pin assembly (6P) x 2	
	F01-0163-03	Heat sink x 2	
_	F19-0135-03	Heat-proof sheet	
-	F20-0066-05	Mica plate x 8	
_	J20-0260-04	Heat sink side plate x 2	
_	J20-0261-03	Main pc board mounting hardware	
	J21-0387-04	Dial calibrations holder x 3	Ĭ
_	J25-0952-03	PC board (A)	
-	J25-0953-13	PC board (B)	
_	X07-1230-13	Main amp unit	-11
_	X07-1230-13 X07-1230-14	Main amp unit	-11

SUB UNIT ASSEMBLY (X90-1160-10)

Ref. No.	Parts No.	Description	Re- marks								
	CAPACITOR										
C106	CE04W1J221	Electrolytic 220µF 63WV									
	MIS	CELLANEOUS									
_	B42-0439-04	Caution sticker									
_	E30-0198-05	PC board connection cord (black)									
-	E30-0199-05	PC board connection cord (red)									
-	E30-0200-05	PC board connection cord (yellow)									
	E30-0202-05	PC board connection cord (blue)									
_	J21-1335-03	PC board mounting hardware									
-											
_	X00-1370-10	Power supply	-10								
_	X00-1370-61	Power supply	-61								
_	X13-1560-10	Power supply/protection									

TUNER & PREAMP ASSEMBLY (X90-1170-10/X90-1180-10)

Ref. No.	Parts No.	Description	Re-								
		Description	marks								
		CAPACITOR	,								
C201	CQ93M1H104K	Mylar 0.1μF ±10%									
C202	CE04W1C100	Electrolytic 10µF 16WV									
C203 ~	CC45SL1H221K	Ceramic 220pF ±10%									
206											
RESISTOR											
R201,202	t .	Carbon 100Ω ±5% 1/4W									
R203 ~ 206	PD14BY2E223J	Carbon 22kΩ ±5% 1/4W									
R207,208	PD14BY2E103J	Carbon 10kΩ ±5% 1/4W									
R209	PD14BY2E330J										
POTENTIOMETER (X90-1170-10) KR-9940											
VR1	ľ										
VIII	R08-5025-05	Potentiometer 200kΩ (W) dual BALANCE									
VR2,3	R03-5024-05	Potentiometer 200kΩ (W)									
		BALANCE									
VR4	R11-5011-05	Potentiometer 100kΩ (B) x 4									
		VOLUME									
	POTENTIOMET	TER (X90-1180-10) KR-8840									
VR1	R08-5025-05	Potentiometer 200kΩ (W) dual									
V-D-0	B00 5004 05	BALANCE									
VR2	R08-5024-05	Potentiometer 200kΩ (W) dual BALANCE									
VR3	R11-5011-05	Potentiometer 100kΩ (B) x 4									
		VOLUME									
		SWITCH									
S1	S01-6003-05	Rotary (SELECTOR)									
S2	S01-4021-05	Rotary (MODE)]								
	MIS	CELLANEOUS	}								
-	A10-0431-21	Chassis									
-	A22-0137-02	Sub panel (X90-1170-10, -61)									
		_									
_	A22-0138-02	Sub panel (X90-1180-10, -61)									
_	D15-0067-34	Pulley									
_	D15-0073-14	Pulley (mid)									
			ł								
-	G01-0044-14	Dial spring	l								
_	J21-1336-03	PC board mounting hardware (A)	- 1								
		(POWER SUPPLY)	l								
-	J21-1337-13	PC board mounting hardware (B)	l								
		(SQ/RM)	I								
-	J21-1338-04	Connector mounting hardware									
_	X00-1590-10	Power supply unit									
_	X05-1080-15	Tuner unit (X90-1170-10, \(\rightarrow \mathbf{O} -118 \)	0-10)								
-	X05-1080-65	Tuner unit (X90-1170-61, 19 0-118									
-	X08-1180-00	Preamp unit									
-	X11-1130-00	Tone amp unit x2									
-	X15-1170-00	SQ/RM unit									
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POWER SUPPLY (X00-1370-10)

Ref. No.	Parts No.	Description	Re- marks						
	CAPACITOR								
Cr1, 2	CE04W1C471	Electrolytic 470µF 16WV							
Cr3 ~6	CK45E2H103P	Ceramic 0.01µF +100%,-0%							
Cr7	CE04W1H010	Electrolytic 1µF 50WV							
		RESISTOR							
Rr1	PD14BY2E103J	Carbon 10kΩ ±5% 1/4W	<u> </u>						
	SEM	IICONDUCTOR							
Dr1, 2	V11-0252-05	Diode SIRB-10							
Dr3, 4	V11-0295-05	Diode W06B							
Dr5	V11-0219-05	Diode V06B							
Dr6	V11-0254-05	Zener diode YZ-140							
	MIS	CELLANEOUS							
_	E19-0602-05	Pin assembly							
F1	F05-4026-05	Fuse (4A, UL)	-10						
F1	F05-4024-05	Fuse (4A, SEMKO)	-61						
F2	F06-2022-05	Fuse (2A, UL)	-10						
F2	F05-2029-05	Fuse (2A, SEMKO)	-61						
_	J13-0032-05	Fuse holder x 2	-61						

POWER SUPPLY (X00-1590-10)

Ref. No.	Parts No.	Description	Re- marks	
CAPACITOR				
Ck1	CE02W1J102	Electrolytic 1000µF 63WV	1	
Ck2	CE04W1E101	Electrolytic 100µF 25WV	1	
Ck3	CE04W1H010	Electrolytic 1µF 50WV		
Ck4	CE04W1E100	Electrolytic 10µF 25WV		
Ck5	CE02W1H102	Electrolytic 1000µF 50WV		
Ck6	CK45F1H103Z	Ceramic 0.01µF +80%,-20%		
Ck7	CE04W1V4R7	Electrolytic 4.7µF 35WV		
Ck8, 9	CK45E2H103P	Ceramic 0.01µF +100%,-0%		
Ck 10,11	CE02W1H102	Electrolytic 1000µF 50WV		
Ck12,13	CE04W1V331	Electrolytic 330µF 35WV		
Ck14,15	CE04W1A221	Electrolytic 220µF 10WV		
Ck16~19	CE04W1C101	Electrolytic 100μF 16WV		
		RESISTOR		
Rk1	PD14BY2E392J	Carbon 3.9kΩ ±5% 1/4W		
Rk2	PD14BY2E472J	Carbon 4.7kΩ ±5% 1/4W		
Rk3	PD14BY2E394J	Carbon 390kΩ ±5% 1/4W		
Rk4	PD14BY2E472J	Carbon 4.7kΩ ±5% 1/4W		
Rk5	PD14BY2E153J	Carbon 15kΩ ±5% 1/4W		
Rk6	PD14BY2E822J	Carbon 8.2kΩ ±5% 1/4W		
Rk7	RN14AB3D4R7JB	Metal film 4.7Ω ±5% 2W		
Rk8	RC05GF2H561K	Carbon 560Ω ±10% 1/2W		
Rk9,10	RN14AB3A121JB	Metal film 120Ω ±5% 1W		
Rk11~14	PD14BY2E471J	Carbon 470Ω ±5% 1/4W		
RK15	PD14BY2E680J	Carbon 68Ω ±5% 1/4W		
Rk16	PD14BY2E820J	Carbon 82Ω ±5% 1/4W		
Rk17,18	PD14BY2E102J	Carbon 1kΩ ±5% 1/4W		
	SEN	MICONDUCTOR		
Qk1	V03-0330-05	Transistor 2SC 789 (O) or (R)		
Qk2, 3	V03-0279-05	Transistor 2SC1000 (BL)		

Ref. No.	Parts No.	Description	Re- marks
Qk4 Qk5 Dk1~3 Dk4	V03-0344-05 V01-0116-05 V11-0254-05 V11-0252-05	Transistor 2SC 1419 (B) or (C) Transistor 2SA 755 (B) or (C) Zener diode YZ-140 Diode S1RB-10	
	М	ISCELLANEOUS	
_	F01-0162-04 F01-0188-04	Heat sink x 2 Heat sink	

TUNER (X05-1080-15)

Ref. No.	Parts No.	D	escription		Re- marks	
	CAPACITOR					
Ca1 CC45SL1H150K Ceramic 15pF ±10%						
Cg1	CC45SL1H150K	Ceramic	100pF	±10%		
Cg2	CK45F1H103Z	Ceramic	0.01µF	+80%,-20%		
Cg3 Cg4	CC45SL1H030C	Ceramic	3pF	±0.25pF		
*	CK45F1H103Z	Ceramic	0.01µF	+80%, -20%		
Cg5,6		Ceramic	18pF	±10%		
Cg7	CC45SL1H180K	Ceramic	27pF	±10%		
Cg8	CC45SL1H270K		2/pr 10pF	±0.5pF		
Cg9	CC45SL1H100D CC45SL1H221K	Ceramic Ceramic	220pF	±10%		
Cg10		Ceramic	0.01µF	+80%, -20%		
Cg11	CK45F1H103Z		0.01μr 10pF	±0.5pF		
Cg12	CC45SL1H100D	Ceramic				
Cg13	CC45TH1H020C	Ceramic	2pF	±0.25pF		
Cg14	CK45F1H223Z	Ceramic	0.022μF	+80%,-20% ±10%		
Cg15	CC45SG1H220K	Ceramic	22pF	±10%		
Cg16	CC45SG1H470K	Ceramic	47pF			
Cg17	CC45SG1H220K	Ceramic	22pF	±10%		
Cg18	CC45TH1H150K	Ceramic	15pF	±10%		
Cg19~26	CK45F1H223Z	Ceramic	0.022µF	+80%,-20%		
Cg27,28	CM93D1H102J(Z)	Mica	1000pF	±5%	i I	
Cg32	CC45SL1H050D	Ceramic	5pF	±0.5pF		
Cg33	CQ93M1H223K	Mylar	0.022µF	±10%		
Cg34	CQ93M1H102K	Mylar	0.001µF	±10%		
Cg35	CK45F1H223Z	Ceramic	0.022µF	+80%,-20%		
Cg36	CK45F1H103Z	Ceramic	0.01µF	+80%,-20%	1	
Cg37	CQ93M1H102K	Mylar	0.001µF	±1 0%		
Cg38	CK45F1H223Z	Ceramic	0.022µF	+80%,-20%		
Cg39	CQ93M1H472J	Mylar	0.0047µF			
Cg40	CC45SL1H050D	Ceramic	5pF	±0.5pF		
Cg41	CK45B1H471K	Ceramic	470pF	±10%		
Cg42~44	CK45F1H223Z	Ceramic	0.022µF	+80%,-20%		
Cg45,46	CC45SL1H221K	Ceramic	220pF	±1 0%		
Cg47	CE04W1E100	Electrolytic	: 10µF	25WV		
Cg48	CK45F1H223Z	Ceramic	0.022µF	+80%,-20%		
Cg49	CE04W1C101	Electrolytic	100µF	16WV		
Cg50	CC45SL1H101K	Ceramic	100pF	±10%	Δ.	
Cg52,53	CQ93M1H103K	Mylar	0.01µF	±10%		
Cg54	CE04W1H3R3	Electrolytic	3.3µF	50WV		
Cg56	CK45F1H223Z	Ceramic	0.022µF	+80%, -20%		
Cg58	CE04W1E100	Electrolytic	:10μF	25WV		
Cg59~62	CK45F1H223Z	Ceramic	0.022µF	+80%,-20%		
Cg63	CQ93M1H223K	Mylar	0.022µF	±10%		
Cg64	CQ93M1H472J	Mylar	0.0047µF	±5%		
Cg65,66	CQ93M1H103K	Mylar	0.01µF	±10%		
Cg67	CQ09S1H361J	Polystyrene	360pF	±5%		
Cg68	CC45SL1H180K	Ceramic	18pF	±1 0%		
Cg69	CE04W1E100	Electrolytic	: 10µF	25WV		
	l					

Ref. No.	Parts No.	Description	Re- marks
Cg70	CM93D1H391J(Z)	Mica 390pF ±5%	
Cg71	CE04W1H010	Electrolytic 1µF 50WV	
Cg72	CQ93M1H223K	Mylar 0.022μF ±10%	
Cg73	CQ08S1H472J	Polystyrene 0.0047μF ±5%	
Cg75	CQ93M1H822J	Mylar 0.0082μF ±5%	
Cg76	CE04W1H010	Electrolytic 1µF 50WV	1 1
Cg77	CQ08S1H472J	Polystyrene 0.0047µF ±5%	
Cg78	CE04W1E100	Electrolytic 10µF 25WV Electrolytic 47µF 6.3WV	
Cg79 Cg80	CE04W0J470 CS04E1ER47M	Electrolytic 47μF 6.3WV Tantalum 0.47μF 25WV	
Cg81,82	CQ93M1H682J	Mylar 0.0068µF ±5%	-15
GgO 1, 02	CQ93M1H472J	Mylar 0.0047µF ±5%	-65
Cg83	CS04E1ER47M	Tantalum 0.47µF 25WV	"
Cg85	CQ93M1H223K	Mylar 0.022µF ±10%	
Cg86,87	CQ08S1H102J	Polystyrene 0.001 µF ±5%	
Cg88	CS04E1ER22M	Tantalum 0.22µF 25WV	1 1
vc	C01-0172-05	Variable capacitor	
CTg1	C05-0009-15	Ceramic trimmer (6pF)	
		RESISTOR	
Rg1	PD14BY2B104J	Carbon 100kΩ ±5% 1/8W	
Rg2	PD14BY2B330J	Carbon 33Ω ±5% 1/8W	
Rg3	PD14BY2B471J	Carbon 470 Ω \pm 5% 1/8W	
Rg4	PD14BY2B104J	Carbon 100kΩ ±5% 1/8W	
Rg5	PD14BY2B562J	Carbon 5.6kΩ ±5% 1/8W	
Rg6	PD14BY2B472J	Carbon 4.7k Ω ±5% 1/8W	
Rg7	PD14BY2B223J	Carbon 22k Ω ±5% 1/8W	
Rg8	PD14BY2B102J	Carbon 1kΩ ±5% 1/8W	
Rg9	PD14BY2B562J	Carbon 5.6kΩ ±5% 1/8W	
Rg10	PD14BY2B392J	Carbon 3.9kΩ ±5% 1/8W	
Rg11	PD14BY2B223J	Carbon 22kΩ ±5% 1/8W	
Rg12	PD14BY2B391J	Carbon 390Ω ±5% 1/8W Carbon 330Ω ±5% 1/8W	
Rg13 Rg14	PD14BY2B331J PD14BY2B102J	Carbon 330 Ω ±5% 1/8W Carbon 1k Ω ±5% 1/8W	
Rg15	PD14BY2B391J	Carbon 390Ω ±5% 1/8W	1
Rg16	PD14BY2B393J	Carbon 39kΩ ±5% 1/8W	
Rg17	PD14BY2B103J	Carbon 10kΩ ±5% 1/8W	
Rg18	PD14BY2B223J	Carbon 22kΩ ±5% 1/8W	
Rg19	PD14BY2B332J	Carbon 3.3kΩ ±5% 1/8W	ļ I
Rg20	PD14BY2B221J	Carbon 220Ω ±5% 1/8W	
Rg21,22	PD14BY2B102J	Carbon 1kΩ ±5% 1/8W	
Rg23	PD14BY2B222J	Carbon 2.2k Ω ±5% 1/8W	
Rg24	PD14BY2B223J	Carbon 22k Ω ±5% 1/8W	
Rg25	PD14BY2B562J	Carbon 5.6k Ω ±5% 1/8W	
Rg26	PD14BY2B183J	Carbon 18kΩ ±5% 1/8W	
Rg29	PD14BY2B470J	Carbon 47Ω ±5% 1/8W	
Rg30,31	PD14BY2B561J	Carbon 560Ω ±5% 1/8W	
Rg32	PD14BY2B332J	Carbon 3.3kΩ ±5% 1/8W	
Rg33	PD14BY2B223J	Carbon 22kΩ ±5% 1/8W	
Rg34	PD14BY2B221J	Carbon 220Ω ±5% 1/8W	
Rg35	PD14BY2B562J	Carbon 5.6k Ω ±5% 1/8W Carbon 560 Ω ±5% 1/8W	
Rg36	PD148Y28561J	- 1	
Rg37 Rg38	PD14BY2B562J PD14BY2B103J	Carbon 5.6k Ω ±5% 1/8W Carbon 10k Ω ±5% 1/8W	
Rg39	PD14BY2B221J	Carbon 220Ω ±5% 1/8W	
Rg40	PD14BY2B103J	Carbon $10k\Omega$ $\pm 5\%$ $1/8W$	
Rg41,42	PD14BY2B333J	Carbon 33k Ω ±5% 1/8W	
Rg43,44	PD14BY2B222J	Carbon 2.2k Ω ±5% 1/8W	
Rg45,46	PD14BY2B682J	Carbon 6.8kΩ ±5% 1/8W	
Rg48	PD14BY2B102J	Carbon 1k Ω ±5% 1/8W	
Rg49,50	PD14BY2B221J	Carbon 220 Ω ±5% 1/8W	
Rg51	PD14BY2B562J	Carbon 5.6k Ω ±5% 1/8W	
Rg52	PD14BY2B223J	Carbon 22k Ω ±5% 1/8W	
Rg53	PD14BY2B104J	Carbon 100kΩ ±5% 1/8W	
Rg54	PD14BY2B103J	Carbon $10k\Omega$ $\pm 5\%$ $1/8W$	

Ref. No.	Parts No.	Description	Re- marks
	75.45.45.45.560.1	50 0 +50 100	THE RE
Rg55 Rg56	PD14BY2B563J PD14BY2B562J	Carbon $56k\Omega$ $\pm 5\%$ 1/8W Carbon $5.6k\Omega$ $\pm 5\%$ 1/8W	
Rg57	PD14BY2B222J	Carbon 2.2kΩ ±5% 1/8W	
Rg58	PD14BY2B682J	Carbon 6.8kΩ ±5% 1/8W	
Rg59	PD14BY2B102J	Carbon 1kΩ ±5% 1/8W	'
Rg60	PD14BY2B103J	Carbon 10k Ω ±5% 1/8W	
Rg61	PD14BY2B221J	Carbon 220Ω ±5% 1/8W	
Rg62	PD14BY2B473J	Carbon 47kΩ ±5% 1/8W	
Rg63	PD14BY2B103J PD14BY2B221J	Carbon $10k\Omega$ $\pm 5\%$ $1/8W$	
Rg64 Rg65	PD14BY2B102J	Carbon 220 Ω ±5% 1/8W Carbon 1k Ω ±5% 1/8W	
Rg66	PD14BY2B563J	Carbon $56k\Omega$ $\pm 5\%$ 1/8W	
Rg67	PD14BY2B124J	Carbon 120kΩ ±5% 1/8W	
Rg68	PD14BY2B471J	Carbon 470Ω ±5% 1/8W	
Rg69	PD14BY2B330J	Carbon 33Ω ±5% 1/8W	
Rg70	PD14BY2B101J	Carbon 100Ω ±5% 1/8W	
Rg71	PD14BY2B102J	Carbon 1kΩ ±5% 1/8W	
Rg72	PD14BY2B101J	Carbon 100Ω ±5% 1/8W	
Rg74	PD14BY2B471J	Carbon 470Ω ±5% 1/8W	
Rg75 Rg76	PD14BY2B222J PD14BY2B330J	Carbon 2.2k Ω $\pm 5\%$ 1/8W Carbon 33 Ω $\pm 5\%$ 1/8W	
Rg77~84	PD14BY2B103J	Carbon 10kΩ ±5% 1/8W	
Rg85~87	PD14BY2B823J	Carbon 82kΩ ±5% 1/8W	
Rg89	PD14BY2B823J	Carbon 82kΩ ±5% 1/8W	
Rg90,91	PD14BY2B153J	Carbon 15kΩ ±5% 1/8W	
Rg92,93	PD14BY2B123J	Carbon 12kΩ ±5% 1/8W	-15
	PD14BY2B113J	Carbon 11kΩ ±5% 1/8W	-65
Rg101	PD14BY2B101J	Carbon 100Ω ±5% 1/8W	
	SEM	IICONDUCTOR	
Qg1	V09-0012-05	FET 2SK19 (GR) or (BL)	
Qg2~4	V03-0091-05	Transistor 2SC381 (R)	
Qg5, 6 Qg7	V03-0098-05 V03-0270-05	Transistor 2SC535 (B) Transistor 2SC945 (Q) or (R)	
Qg8	V03-0276-05	Transistor 2SC785 (R)	
Qg9	V03-0079-05	Transistor 2SC460 (B)	
Qg10	V01-0084-05	Transistor 2SA733 (Q) or (R)	ı
Qg11,12	V03-0090-05	Transistor 2SC458 (D)	ŀ
Qg13	V03-0215-05	Transistor 2SC1213A (C)	
Qg14	V03-0079-05	Transistor 2SC460(B)	
ICg1	V30-0087-05	IC TA7060P	- 1
Dg1, 2	V11-0051-05	Diode 1N60	- 1
Dg3, 4 Dg5~12	V11-0076-05 V11-0051-05	Diode 1S1555 or 1S2076	
Dg5~12	V11-0031-05	Diode 1N60 Diode 1S1555 or 1S2076	
Dg14~18	V11-0070-05	Diode 181035 01 132070	
Dg19	V11-0031-05	Diode 181555 or 182076	l
Dg20~27	V11-0051-05	Diode 1N60	
Dg29,30	V21-0004-05	Varistor MV-13	
Zg1	V21-0006-05	Zener diode DZ-140	
	TRAN	IS/COIL/FILTER	
Tg1	L34-0405-05	FM-ANT coil	ŀ
Tg2	L34-0408-05	FM-RF coil	l
Tg3 Tg4	L34-0409-05 L30-0176-05	FM-OSC coil FM-IFT	ł
Tg5	L30-0176-05	FM-IFT	
Tg6	L30-0250-05	AM-IFT	l
Tg7	L30-0052-05	AM-IFT	ŀ
Tg8	L30-0248-05	FM-IFT	l
Tg9	L30-0207-15	Discriminator coil	
Tg10	L30-0249-05	AM-IFT	
Tg11	L30-0082-05	AM-OSC coil	
Tg12	L35-0054-05	MPX coil	- 1
Tg13	L35-0052-05	MPX coil	

Ref. No.	Parts No.	Description	Re- marks	
Tg14	L35-0054-05	MPX coil		
Tg15	L35-0053-05	MPX coil		
Lg1	L40-1092-03	Ferri-inductor		
Lg2	L33-0027-04	Choke coil		
Lg3, 4	L33-0026-04	Choke coil		
Lg5	L40-1511-10	Ferri-inductor	1	
Lg6~9	L40-1092-03	Ferri-inductor		
Lg10,11	L40-1835-22	Ferri-inductor		
CFg1,2	L72-0014-05	Ceramic filter		
	PO	TENTIOMETER		
VRg1	R12-2016-05	PC trimmer (AM-METER)5kΩ(B)	
VRg3	R12-3029-05	PC trimmer (FM-OUTPUT)	1	
		30kΩ (B)		
VRg4	R12-0047-05	PC trimmer (SEPARATION)		
		500Ω (B)		
VRg5	R12-4019-05	PC trimmer (BEACON) 50k Ω (B)		
MISCELLANEOUS				
_	F10-0279-14	Shield plate		
<u> </u>	F10-0280-03	Shield plate		

MAIN AMP (X07-1230-13, 14) 0,47 CR

Ref. No.	Parts No.	Description Re- marks		
CAPACITOR				
Ce1~4	CC45SL1H221K	Ceramic 220pF ±10%		
Ce5~8	CE04W1H010	Electrolytic 1µF 50WV		
Ce9~12	CE04W1E100	Electrolytic 10µF 25WV		
Ce17~20	CC45SL1H330K	Ceramic 33pF ±10%		
Ce21~24	CE04W1H470	Electrolytic 47µF 50WV		
Ce25~28	CE04W0J101	Electrolytic 100µF 6.3WV		
Ce33	CE04W1H010	Electrolytic 1µF 50WV		
Ce34	CE04W1H221	Electrolytic 220µF 50WV		
Çe43	CQ93M1H104M	Mylar 0.1μF ±20%		
		RESISTOR		
Re1~4	PD14BY2E334J	Carbon 330kΩ ±5% 1/4W		
Re5~8	PD14BY2E562J	Carbon 5.6kΩ ±5% 1/4W		
Re9~12	PD14BY2E563J	Carbon 56kΩ ±5% 1/4W		
Re13~16	PD14BY2E153J	Carbon 15kΩ ±5% 1/4W		
Re17~20	PD14BY2E272J	Carbon 2.7kΩ ±5% 1/4W		
Re21~24	PD148Y2E222J	Carbon 2.2kΩ ±5% 1/4W		
Re25~28	PD148Y2E563J	Carbon 56kΩ ±5% 1/4W		
Re29~32	PD148Y2E101JB	Carbon 100Ω ±5% 1/4W		
Re33~36	RC05GF2H222K	Carbon 2.2kΩ ±10% 1/2W		
Re37~40	RC05GF2H472K	Carbon 4.7kΩ ±10% 1/2W		
Re41~44	PD14BY2E121JB	Carbon 120Ω ±5% 1/4W		
Re45~52	RN14AB3A331JB	Metal film 330Ω ±5% 1W		
Re53~56	PD14BY2E8R2JB	Carbon 8.2Ω ±5% 1/4W		
Re57~60	PD14BY2E822J	Carbon 8.2kΩ ±5% 1/4W		
Re61	PD14BY2E560JB	Carbon 56Ω ±5% 1/4W		
Re62	RC05FG2H222K	Carbon 2.2kΩ ±10% 1/2W		
	SEM	IICONDUCTOR		
Qe1~8	V01-0087-05	Transistor 2SA620WL (4) or (5)		
Qe9~12	V03-0296-05	Transistor 2SC983 (O)		

Transistor 2SD381 (L) or (M) Transistor 2SB536 (L) or (M)

PC trimmer 200 Ω (B) BIAS

Zener diode YZ-140

POTENTIOMETER

PREAMP (X08-1180-00)

Ref. No.	Parts No.	Description	Re- marks		
CAPACITOR					
Cd1, 2	CS15E1C2R2M	Tantalum 2.2µF 16WV	.[
Cd3, 4	CC45SL1H330K	Ceramic 33pF ±10%			
Cd5, 6	CC45SL1H220K	Ceramic 22pF ±10%			
Cd7, 8	CE04W0J470	Electrolytic 47µF 6.3WV			
Cd9,10	CC45SL1H150K	Ceramic 15pF ±10%			
Cd11,12	CQ09S1H681J	Polystyrene 680pF ±5%	1 .		
Cd13,14	CQ93M1H222J	Mylar 0.0022μF ±5%			
Çd15,16	CE04W0J330	Electrolytic 33µF 6.3WV			
Cd17,18	CE04W1H100MBR	Electrolytic 10µF 50WV			
Cd19	CE04W1H470	Electrolytic 47µF 50WV			
Cd20	CE04W1C470	Electrolytic 47µF 16WV	-		
Cd21,22	CC45SL1H470K	Ceramic 47pF ±10%			
		RESISTOR	-		
Rd1, 2	PD14BY2E222J	Carbon 2.2kΩ ±5% 1/4W			
Rd3, 4	PD14BY2E334J	Carbon 330k Ω ±5% 1/4W			
Rd5, 6	PD14BY2E224J	Carbon 220k Ω ±5% 1/4W			
Rd7, 8	PD14BY2E182J	Carbon 1.8kΩ ±5% 1/4W			
Rd9,10	PD14BY2E473J	Carbon 47kΩ ±5% 1/4W			
Rd11,12	PD14BY2E154J	Carbon 150kΩ ±5% 1/4W			
Rd13,14	PD14BY2E564J	Carbon 560kΩ ±5% 1/4W			
Rd15,16	PD14CY2E684J	Carbon 680kΩ ±5% 1/4W			
Rd17,18	PD14BY2E103J	Carbon 10k Ω ±5% 1/4W			
Rd19,20	PD14BY2E154J	Carbon 150kΩ ±5% 1/4W			
Rd21,22	PD14BY2E563J	Carbon 56k Ω \pm 5% 1/4W			
Rd23,24	PD14BY2E182J	Carbon 1.8kΩ ±5% 1/4W			
Rd25,26	PD14BY2E562J	Carbon 5.6kΩ ±5% 1/4W			
Rd27,28	PD14BY2E563J	Carbon 56k Ω ±5% 1/4W			
Rd29	PD14BY2E103J	Carbon 10kΩ ±5% 1/4W			
Rd30	PD14BY2E332J	Carbon 3.3k Ω ±5% 1/4W			
Rd31,32	PD14CY2E824J	Carbon 820kΩ ±5% 1/4W	ļ		
	SEN	IICONDUCTOR			
Qd1~4	V03-0303-05	Transistor 2SC1416A (GR)			
Qd5, 6	V03-0358-05	Transistor 2SC1416 (GR)or(BL)			

TONE AMP (X11-1130-00)

Ref. No.	Parts No.	Description	Re- marks		
CAPACITOR					
Ci1, 2	C90-0152-05	Tantalum 1µF 25WV			
Ci3, 4	CC45SL1H101K	Ceramic 100pF ±10%			
Ci5, 6	CE04W1E3R3MBR	Electrolytic 3.3µF 25WV			
Ci7, 8	CC45SL1H101K	Ceramic 100pF ±10%			
Ci9,10	CQ93M1H152J	Mylar 0.0015µF ±5%			
Ci11~14	CQ93M1H183J	Mylar 0.018μF ±5%			
Ci15,16	CE04W1E100	Electrolytic 10µF 25WV			
Ci17,18	CC45SL1H330K	Ceramic 33pF ±10%			
Ci19,20	CE04W1E3R3MBR	Electrolytic 3.3µF 25WV			
Ci21,22	CE04W0J470	Electrolytic 47µF 6.3WV			
Ci23	CE04W1H470	Electrolytic 47µF 50WV			
Ci25,26	CE04W1E3R3MBR	Electrolytic 3.3μF 25WV			
		RESISTOR			
Ri1, 2	PD14CY2E222J	Carbon 2.2kΩ ±5% 1/4W			
Ri3, 4	PD14CY2E224J	Carbon 220kΩ ±5% 1/4W			
Ri5, 6	PD14CY2E154J	Carbon 150kΩ ±5% 1/4W			
Ri7, 8	PD14CY2E224J	Carbon 220kΩ ±5% 1/4W			
Ri9,10	PD14CY2E472J	Carbon 4.7kΩ ±5% 1/4W			

Qe13~16

0⊌17~20

De1

V04-0055-05

V02-0041-05

V11-0254-05

R12-0055-05

Ref. No.	Parts No.		Descript	tion		Re- marks
Ri11,12	PD14CY2E273J	Carbon	$27k\Omega$	±5%	1/4W	
Ri13	PD14BY2E562J	Carbon	5.6k Ω	±5%	1/4W	
Ri14	PD14CY2E562J	Carbon	5.6k Ω	±5%	1/4W	1
Ri15,16	PD14CY2E474J	Carbon	470kΩ	±5%	1/4W	
Ri17,18	PD14BY2E562J	Carbon	5.6k Ω	±5%	1/4W	1
Ri19,20	PD14CY2E103J	Carbon	10k Ω	±5%	1/4W	
Ri21,22	PD14CY2E562J	Carbon	$5.6k\Omega$	±5%	1/4W	
Ri23,24	PD14BY2E273J	Carbon	27kΩ	±5%	1/4W	
Ri25,26	PD14CY2E274J	Carbon	270kΩ	±5%	1/4W	
R127,28	PD14CY2E333J	Carbon	33kΩ	±5%	1/4W	
Ri29,30	PD14CY2E562J	Carbon	$5.6k\Omega$	±5%	1/4W	
Ri31,32	PD14CY2E102J	Carbon	1kΩ	±5%	1/4W	
Ri33,34	PD14BY2E102J	Carbon	1kΩ	±5%	1/4W	1 1
	SEM	ICONDUC	TOR			
Qi1~4	V03-0309-05	Transisto	r 2SC134	15 (D)	or (E)	
	POTENTIOMETER					
VRi1,2	R06-5007-05 34	Potentio	meter 10	OkΩ (E	3) dual	

Ref. No.	Parts No.	Description	Re- marks
Ωр8	V03-0279-05	Transistor 2SC1000 (BL)	
Dp1 ~ 6	V11-0273-05	Diode 1S2076	
Dp7, 8	V11-0219-05	Diode V06B	
Dp9	V11-0254-05	Zener diode YZ-140	
		COIL	
Lp1	L40-1091-03	Ferri-inductor	
	·PC	TENTIOMETER	
VRp1	R12-0047-05	PC trimmer 500Ω (B)	
	MI	SCELLANEOUS	
_	E19-0302-05	Pin assembly (3P)	
_	E19-0401-05	Pin assembly (4P) x 3	
_	F01-0208-04	Heat sink	
Ryp1, 2	S51-2017-15	Relay	

POWER SUPPLY & PROTECTION (X13-1560-10)

Ref. No.	Parts No.	Description	Re- marks		
CAPACITOR					
Cp1,2	CE04W1A470NP	Electrolytic 47µF 10WV			
СрЗ	CE04W1H100	Electrolytic 10µF 50WV			
Cp4	CE04W1V101	Electrolytic 100µF 35WV			
Cp5, 6	CK45F1H103Z	Ceramic 0.01µF +80%,—20%			
Cp7,8	CE04W1V221	Electrolytic 220µF 35WV			
Cp9.	CE04W1H221	Electrolytic 220µF 50WV			
		RESISTOR			
Rp1	PD14BY2E103J	Carbon 10kΩ ±5% 1/4W			
Rp2	PD14BY2E332J	Carbon 3.3kΩ ±5% 1/4W			
Rp3, 4	PD14BY2E103J	Carbon 10kΩ ±5% 1/4W			
Rp5	PD14BY2E332J	Carbon 3.3kΩ ±5% 1/4W			
Rp6	PD14BY2E101J	Carbon 100Ω ±5% 1/4W			
Rp7	PD14BY2E104J	Carbon 100kΩ ±5% 1/4W			
Rp8, 9	PD14BY2E223J	Carbon 22kΩ ±5% 1/4W			
Rp10	PD14BY2E272J	Carbon 2.7kΩ ±5% 1/4W			
Rp11,12	PD14BY2E183J	Carbon 18kΩ ±5% 1/4W			
Rp13,14	PD14BY2E223J	Carbon 22kΩ ±5% 1/4W			
Rp15	RC05GF2H560K	Carbon 56Ω ±10% 1/2W			
Rp16	RN14AB3D181 KB	Metal film 180Ω ±10% 2W			
Rp17	PD14BY2E103J	Carbon 10kΩ ±5% 1/4W			
Rp18	RN14AB3D220KB	Metal film22Ω ±10% 2W			
Rp19	R92-0108-05	Metal film 4.7Ω ±10% 2W			
Rp20	PD14BY2E222J	Carbon 2.2kΩ ±5% 1/4W			
Rp21	PD14BY2E332J	Carbon 3.3kΩ ±5% 1/4W			
Rp22	RN14AB3A181KB	Metal film 180 Ω ±10% 1W			
Rp23	PD14BY2E562J	Carbon 5.6kΩ ±5% 1/4W			
Rp24	PD14BY2E102J	Carbon 1kΩ ±5% 1/4W			
Rp25	PD14BY2E561J	Carbon 560Ω ±5% 1/4W			
Rp26	RN14AB3A331KB	Metal film 330Ω ±5% 1W			
	SEMI	CONDUCTOR			
Qp1	V03-0360-05	Transistor 2SC1451 (G) or (B)			
Qp2	V01-0073-05	Transistor 2SA673A (C)			
ОрЗ	V03-0358-05	Transistor 2SC1416 (GR)			
Qp4, 5	V03-0215-05	Transistor 2SC1213A (C)			
Qp6	V01-0073-05	Transistor 2SA673A (C)			
Ор7	V03-0330-05	Transistor 2SC789 (O) or (R)			

PUSHBUTTON SW (X13-1570-11)

Ref. No.	Parts No.	Description	Re- marks	
	C	APACITOR		
Ch1~12	CK45D1H561M	Ceramic 560pF ±20%		
Ch13~16	CQ93M1H473K	Mylar 0.047μF ±10%		
Ch17~24	CE04W1H010BR	Electrolytic 1µF 50WV	1	
Ch25~28	CQ93M1H103K	Mylar 0.01μF ±10%		
Ch29~32	CQ93M1H562K	Mylar 0.0056μF ±10%		
Ch33~36	CE04W1V3R3NP	Electrolytic 3.3µF 35WV		
Ch37~40	CQ93M1H224K	Mylar 0.22μF ±1 0 %		
Ch41	CE04W1H470	Electrolytic 47μF 50WV		
RESISTOR				
Rh1~8	PD14BY2E222J	Carbon 2.2kΩ ±5% 1/4W		
Rh9~12	PD14BY2E392J	Carbon 3.9kΩ ±5% 1/4W		
Rh13~16	PD14BY2E103J	Carbon 10kΩ ±5% 1/4W		
Rh17~20	PD14BY2E122J	Carbon 1.2kΩ ±5% 1/4W		
Rh21~24	PD14BY2E224J	Carbon 220kΩ ±5% 1/4W		
Rh25~28	PD14BY2E333J	Carbon 33kΩ ±5% 1/4W		
Rh29~32	PD14BY2E394J	Carbon 390kΩ ±5% 1/4W	1	
Rh33~36	PD14BY2E103J	Carbon 10kΩ ±5% 1/4W		
Rh37~40	PD14BY2E681J	Carbon 680Ω ±5% 1/4W		
Rh41~44	PD14BY2E224J	Carbon 220kΩ ±5% 1/4W		
Rh45~48	PD14BY2E124J	Carbon 120kΩ ±5% 1/4W		
Rh49~52	PD14BY2E471J	Carbon 470Ω ±5% 1/4W	1	
Rh53~56	PD14BY2E390J	Carbon 39Ω ±5% 1/4W		
Rh57~60	RN14AB3D4R7KB	Metal film 4.7Ω ±10% 2W		
Rh61~64	RC05GF2H681K	Carbon 680Ω ±10% 1/2W	1	
	SEM	ICONDUCTOR		
Qh1~4	V03-0309-05	Transistor 2SC1345 (E) or (D)		
Dh1~8	V11-0051-05	Diode 1N60		
	POT	ENTIOMETER		
VRh1~4	R12-2016-05	PC trimmer 5kΩ (B) VUM ETE	RADJ.	
		SWITCH		
S4~12	S41-9001-05	Pushbutton (9 keys)		
	MIS	CELLANEOUS		
- 7	E11-0002-05	Phone jack x 2		
-	E19-0302-05	Pin assembly		
		(E-01, E-02, B-01, B-02); 4		

Ref. No.	Parts No.	Description	Re- marks
_	E19-0401-05	Pin assembly (A-01, A-03 ~ A-06, C01 ~ C-05, D-01, D-02) x 12	
-	E19-0602-05	Pin assembly (A-02, C06, E-03)x3	
_	J19-0362-13	Pushbutton switch stopper	

CD-4 (X15-1120-06)

					Re-
Ref. No.	Parts No.	C	escription		marks
	C	APACITOR		100000000000000000000000000000000000000	
Cz1, 2	CQ93M1H102J	Mylar	0.001µ	±5%	
Cz3	CE04W1H010	Electrolytic		50WV	
Cz4	CQ93M1H222J	Mylar	0.0022µF	±5%	
Cz5	CK45F1H223Z		0.022µF		0%
Cz6	CE04W1H010	Electrolytic	•	50WV	
Cz7	CQ93M1H272J	Mylar	0.0027µF		0227,28
		,	0.000		=SL24487
	CQ93M1H332J	Mylar	0.0033µF	±5%	0.227,28
			-		=CD894K
Cz8	CQ93M1H272J	Mylar	0.0027μF	±5%	1
Cz9	CE04W1E100	Electrolytic	7,17	25WV	
Cz11	CE04W0J101	Electrolytic		6.3WV	
Cz12	CE04W1E4R7	Electrolytic		25WV	
Cz13	CE04W1H010MBR	Electrolytic	•	50WV	
Cz15	CQ93M1H104J	Mylar	0.1µF	±5%	
Cz16	CQ93M1H103J	Mylar	0.01µF	±5%	
Cz17	CS15E1VR22M	Tantalum	0.22µF	35WV	
Cz18~20	CE04W1H010MBR	Electrolytic	: 1μF	50WV	
Cz21	CE04W0J101	Electrolytic	: 100µF	6.3WV	
Cz22	CE04W1H010MBR	Electrolytic	: 1μF	50WV	
Cz23	CQ93M1H272J	Mylar	0.0027µF	±5%	
Cz24	CQ93M1H122J	Mylar	0.0012µF	±5%	
Cz25	CQ93M1H102J	Mylar	0.001µF	±5%	
Cz26	CK45F1H223Z	Ceramic	0.022µF	+80%,-2	D%
Cz27	CQ93M1H332K	Mylar	0.0033µF	±10%	
Cz28	CE04W1C330	Electrolytic	: 33µF	16WV	
Cz29	CC45SL1H221K	Ceramic	220pF	±10%	
C230	CQ08S1H102J	Polystyrene	0.001μF	±5%	
Cz31	CS15E1VR22M	Tantalum	0.22µF	35WV	
Cz32	CQ93M1H473J	Mylar	0.047µF	±5%	
Cz33	CQ93M1H332K	Mylar	0.0033µF	±10%	
Cz34,35	CQ93M1H154K	Mylar	0.15µF	±10%	
Cz36	CQ93M1H124J	Mylar	0.12µF	±5%	
Cz37	CQ93M1H104J	Mylar	0.1µF	±5%	
Cz38	CS15E1VR47M	Tantalum	0.47µF	35WV	
Cz40	CS15E1VR10M	Tantalum	0.1µF	35WV	
Cz41	CE04W1E100	Electrolytic	: 10µF	25WV	
Cz42,43	CQ93M1H102J	Mylar	0.001µF	±5%	
Cz44	CE04W1H010	Electrolytic	: 1μF	50WV	
Cz45	CK45F1H223Z	Ceramic	$0.022 \mu F$	+80%,-2	0%
Cz46	CQ93M1H222J	Mylar	0.0022µF	±5%	
C247	CE04W1H010	Electrolytic	c 1µF	50WV	
Cz48	CQ93M1H272J	Mylar	0.0027µF	±5%	Oz27,28
					=SL24487
	CQ93M1H332J	Mylar	0.0033µF	±5%	0z27,28
					≈CD894K
Cz49	CQ93M1H272J	Mylar	0.0027μF	±5%	
Cz50	CE04W1E100	Electrolyti	c 10μF	25WV	
Cz52	CE04W0J101	Electrolyti	c 100µF	6.3WV	
Cz53	CE04W1E4R7	Electrolyti	c 4.7µF	25WV	
Cz54	CE04W1H010MBR	Electrolyti	c 1µF	50WV	

Ref. No.	Parts No.		Descript	ion			Re- arks
Cz56	CQ93M1H104J	Mylar	0.1µF		±5%	+	
Cz57	CQ93M1H103J	Mylar	0.01μ1	F :	±5%		
Cz58	CS15E1VR22M	Tantalum	0.2241	F :	35WV		
Cz59~61	CE04W1H010MBR	Electrolyt	ic 1μF		50WV		
Cz62	CE04W0J101	Electrolyt			6.3WV		
Cz63	CE04W1H010MBR	Electrolyt			50WV		
Cz64	CQ93M1H272J	Mylar	0.002				
Cz65 Cz66	CQ93M1H122J CQ93M1H102J	Mylar Mylar	0.001		±5%		
Cz67	CK45F1H223Z	Ceramic	0.022			10/2	
Cz68	CQ93M1H332K	Mylar	0.003			78	
Cz69,70	CQ93M1H154K	Mylar	0.15μ		±10%		
Cz71	CQ93M1H124J	Mylar	0.12μ		±10%		
Cz72	CQ93M1H104J	Mylar	0.1µF	1	±10%		
Cz74	CS15E1VR47M	Tantalum	0.47#	F :	35WV		
Cz75	CS15E1VR10M	Tantalum	0.1µF	:	35WV		
Cz76	CE04W1E100	Electrolyt	ic 10µF		25WV		
Cz77,78	CQ93M1H223J	Mylar	0.022		±5%		
Cz79	CE04W1E4R7	Electrolyt			25WV		
Cz80	CQ93M1H123J	Mylar	0.012		±5%		
Cz81	CE04W1E4R7	Electrolyt			25WV		
Cz82	CQ93M1H123J	Mylar	0.012		±5%		
Cz83	CE04W1E101	Electrolyt	<u></u>		25WV		
		RESISTOR		-			
Rz1	PD14BY2B124J	Carbon	120kΩ	±5%		1	
Rz2	PD148Y2B223J	Carbon	22kΩ	±5%			
Rz3 Rz4	PD148Y2B562J	Carbon	5.6kΩ	±5%			
Rz5	PD14BY2B103J PD14BY2B181J	Carbon Carbon	10kΩ 180Ω	±5%			- 1
Rz6	PD14BY2B182J	Carbon	1.8kΩ	±5%			
R27,8	PD14BY2B103J	Carbon	1.8k32	±5%	,		
Rz9,10	PD14BY2B121J	Carbon	120Ω	±5%			
Rz11	PD14BY2B103J	Carbon	10kΩ	±5%			
Rz12	PD14BY2B222J	Carbon	$2.2k\Omega$	±5%	6 1/8W		
Rz13	PD14BY2B332J	Carbon	3.3 k Ω	±5%	6 1/8W	0z2	7,28
						تا≳=	24487
	PD14BY2B272J	Carbon	2.7k Ω	±5%	., .,		
						=CD	894K
Rz14	PD14BY2B154J	Carbon	150kΩ		,		
Rz15	PD14BY2B333J	Carbon	33kΩ	±5%			
Rz16 Rz17	PD14BY2B472J	Carbon	4.7kΩ	±5%	,		
Rz18	PD14BY2B102J PD14BY2B682J	Carbon Carbon	$1k\Omega$ 6.8k Ω	±5%			
R219	PD14BY2B124J	Carbon	120kΩ				
Rz20	PD14BY2B473J	Carbon	47kΩ	±5%			
Rz21	PD14BY2B222J	Carbon	2.2kΩ	±5%	,		
Rz23	PD14BY2B222J	Carbon	2.2kΩ	±5%			
Rz24	PD14BY2B273J	Carbon	27kΩ	±5%	6 1/8W		
R225	PD14BY2B562J	Carbon	5.6k Ω	±5%	1/8W		
Rz26	PD14BY2B102J	Carbon	1kΩ	±5%	1/8W		
Rz27	PD14BY2B562J	Carbon	5.6k Ω	±5%	6 1/8W		İ
Rz28	PD14BY2B332J	Carbon	3.3 k Ω	±5%		}	
Rz29	PD14BY2B224J	Carbon	220kΩ				1
R230	PD14BY2B104J	Carbon	100kΩ	±5%			
R231,32	PD14BY2B222J	Carbon	2.2kΩ	±5%			
Rz33,34	PD14BY2B103J	Carbon	10kΩ	±5%			
Rz35 Rz36	PD14BY2B123J	Carbon	12kΩ	±5%			
Rz35	PD14BY2B103J PD14BY2B104J	Carbon Carbon	10kΩ 100kΩ				
Rz38	PD148Y2B104J	Carbon	3.3kΩ	±5%			I
Rz39	PD14BY2B821J		82 0 Ω	±5%			
Rz40	PD14BY2B331J	Carbon	330Ω	±5%			
Rz41	PD14BY2B473J	Carbon	47kΩ	±5%			ł
l				,			- 1

PD14BY2B224J

220kΩ ±5% 1/8W

Ref. No.	Parts No.		Descrip	tion		Re- marks
Rz43	PD14BY2B333J	Carbon	33k Ω	±5%	1/8W	
Rz44	PD14BY2B561J	Carbon	560Ω	±5%	1/8W	
Rz45	PD14BY2B472J	Carbon	4.7k Ω	±5%	1/8W	
Rz48	PD14BY2B224J	Carbon	220kΩ	±5%	1/8W	
Rz49	PD14BY2B123J	Carbon	12kΩ	±5%	1/8W	
Rz50	PD14BY2B682J	Carbon	6.8kΩ	±5%	1/8W	i I
Rz51	PD14BY2B822J	Carbon	8.2kΩ	±5%	1/8W	
Rz52 Rz53	PD14BY2B151J	Carbon Metal file	150Ω	±5%	1/8W 1W	
Rz54	RN14AB3A331J PD14BY2B103J	Carbon	10kΩ	±5%	1/8W	
R255	PD14BY2B224J	Carbon	220kΩ	±5%	1/8W	
Rz56	PD14BY2B393J	Carbon	39kΩ	±5%	1/8W	
Rz57	PD14BY2B273J	Carbon	27kΩ	±5%	1/8W	
Rz58	PD14BY2B102J	Carbon	1kΩ	±5%	1/8W	
Rz59	PD14BY2B563J	Carbon	56k Ω	±5%	1/8W	
Rz60	PD14BY2B333J	Carbon	$33k\Omega$	±5%	1/8W	
Rz61	PD14BY2B562J	Carbon	5.6k Ω	±5%	1/8W	
Rz62	PD14BY2B683J	Carbon	$68 \mathrm{k}\Omega$	±5%	1/8W	
Rz63	PD14BY2B682J	Carbon	6.8kΩ	±5%	1/8W	
Rz64	PD14BY2B472J	Carbon	4.7k Ω	±5%	1/8W	
Rz65	PD14BY2B221J	Carbon	220Ω	±5%	1/8W	
Rz66	PD14BY2B223J	Carbon	22kΩ	±5%	1/8W	
Rz67	PD14BY2B473J	Carbon	47kΩ	±5%	1/8W	
Rz68	PD14BY2B224J	Carbon	220kΩ		1/8W	
Rz69	PD14BY2B562J	Carbon	5.6kΩ	±5%	1/8W	
Rz70	PD14BY2B221J	Carbon	220Ω	±5% ±5%	1/8W	
Rz71	PD14BY2B123J	Carbon	12kΩ	±5%	1/8W	
Rz73 Rz74	PD14BY2B821J PD14BY2B224J	Carbon	820Ω 220kΩ		1/8W 1/8W	
Rz75	PD14BY2B224J	Carbon	220k3ε 22kΩ	±5%	1/8W	
R276,77	PD14BY2B104J	Carbon	100kΩ		1/8W	
R278	RN14AB3A330J	Metal file		±5%	1W	
Rz79	PD14BY2B273J	Carbon	27kΩ	±5%	1/8W	i I
Rz80	PD14BY2B124J	Carbon	12 0 kΩ	±5%	1/8W	
Rz81	PD14BY2B223J	Carbon	22k Ω	±5%	1/8W	
Rz82	PD14BY2B103J	Carbon	10k Ω	±5%	1/8W	
Rz83	PD14BY2B562J	Carbon	5.6k Ω	±5%	1/8W	
Rz84	PD14BY2B181J	Carbon	180 Ω	±5%	1/8W	
Rz85	PD14BY2B182J	Carbon	1.8k Ω	±5%	1/8W	1
Rz86	PD14BY2B103J	Carbon	10k Ω	±5%	1/8W	
Rz87	PD14BY2B101J	Carbon	100Ω	±5%	1/8W	
Rz88	PD14BY2B103J	Carbon	10kΩ	±5%	1/8W	
Rz89	PD14BY2B101J	Carbon	100Ω	±5%	1/8W	[
Rz90	PD14BY2B103J	Carbon	10kΩ	±5%	1/8W	
Rz91	PD14BY2B222J	Carbon	2.2kΩ	±5% ±5%	1/8W	
Rz92	PD14BY2B332J	Carbon	3.3k Ω	15%	1/8W Q	3L24487
	PD14BY2B272J	Carbon	2.7k Ω	±5%	1/8W Q	
Rz93	PD14BY2B154J	Carbon	15 0 kΩ	±5%	1/8W	
Rz94	PD14BY2B333J	Carbon	33kΩ	±5%	1/8W	
Rz95	PD148Y2B472J	Carbon	4.7kΩ	±5%	1/8W	[[
R296	PD14BY2B102J	Carbon	1kΩ	±5%	1/8W	
R 297	PD14BY2B563J	Carbon	56k Ω	±5%	1/8W	
Rz98	PD14BY2B682J	Carbon	$6.8 k\Omega$	±5%	1/8W	
R 299	PD14BY2B124J	Carbon	120k Ω		1/8W	
Rz100	PD14BY2B473J	Carbon	47k Ω	±5%	1/8W	
Rz101	PD14BY2B222J	Carbon	$2.2k\Omega$	±5%	1/8W	
Rz103	PD14BY2B222J	Carbon	2.2kΩ	±5%	1/8W	
Rz104	PD14BY2B273J	Carbon	27kΩ	±5%	1/8W	
Rz105	PD14BY2B102J	Carbon	1kΩ	±5%	1/8W	
Rz106,107	PD14BY2B562J	Carbon	5.6kΩ	±5%	1/8W	[
Rz108	PD14BY2B332J	Carbon	$3.3k\Omega$ $220k\Omega$	±5%	1/8W	
Rz109	PD148Y2B224J	Carbon	220K32	±0%	1/8W	

Ref. No.	Parts No.	Description	Re-
			marks
Rz110	PD14BY2B104J	Carbon 100kΩ ±5% 1/8W	
Rz111,112 Rz113,114	PD14BY2B222J PD14BY2B103J	Carbon 2.2k Ω ±5% 1/8W Carbon 10k Ω ±5% 1/8W	
Rz115	PD14BY2B123J	Carbon 12kΩ ±5% 1/8W	
R2116	PD14BY2B103J	Carbon 10kΩ ±5% 1/8W	1
Rz117	PD14BY2B104J	Carbon 100k Ω ±5% 1/8W	
Rz118	PD14BY2B332J	Carbon 3.3k Ω ±5% 1/8W	
Rz119	PD14BY2B821J	Carbon 820Ω ±5% 1/8W	
Rz120	PD14BY2B331J	Carbon 330Ω ±5% 1/8W	
Rz121	PD14BY2B224J	Carbon 220k Ω ±5% 1/8W Carbon 47k Ω ±5% 1/4W	
Rz122 Rz123	PD14BY2B473J PD14BY2B333J	_ ,	
Rz123	PD14BY2B561J	Carbon 33k Ω ±5% 1/8W Carbon 560 Ω ±5% 1/8W	1
Rz124	PD14BY2B224J	Carbon 220kΩ ±5% 1/8W	l
Rz128	PD14BY2B123J	Carbon 12k Ω ±5% 1/8W	ĺ
Rz129	PD14BY2B682J	Carbon 6.8kΩ ±5% 1/8W	
Rz130	PD14BY2B822J	Carbon 8.2kΩ ±5% 1/8W	
Rz131	PD14BY2B151J	Carbon 150 Ω ±5% 1/8W	
Rz132,133	PD14BY2B223J	Carbon 22kΩ ±5% 1/8W	
Rz134	PD14BY2B224J	Carbon 220kΩ ±5% 1/8W	
Rz135	PD14BY2B473J	Carbon 47kΩ ±5% 1/8W	
Rz136	PD14BY2B562J	Carbon 5.6kΩ ±5% 1/8W	
Rz137	PD14BY2B221J	Carbon 220 Ω $\pm 5\%$ 1/8W	
Rz139 Rz140	PD14BY2B821J PD14BY2B224J	_ ,	
Rz141	PD14BY2B223J	Carbon 220k Ω \pm 5% 1/8W Carbon 22k Ω \pm 5% 1/8W	Ï
Rz142,143	PD14BY2B104J	Carbon 100kΩ ±5% 1/8W	
Rz144	PD14BY2B472J	Carbon 4.7kΩ ±5% 1/8W	
Rz145,146	PD14BY2B563J	Carbon 56kΩ ±5% 1/8W	
Rz147,148	PD14BY2B103J	Carbon 10kΩ ±5% 1/8W	
Rz149	PD14BY2B333J	Carbon 33kΩ ±5% 1/8W	
Rz150	PD14BY2B222J	Carbon 2.2kΩ ±5% 1/8W	
Rz151	PD14BY2B333J	Carbon 33kΩ ±5% 1/8W	
Rz152	PD14BY2B222J	Carbon 2.2kΩ ±5% 1/8W	
0-4 7		ICONDUCTOR	
Qz1~7 Qz8	V03-0292-05	Transistor 2SC1335 (E) Transistor 2SC828A (S)	
Q29~13	V03-0346-05 V03-9900-05	Transistor 25C828A (S) Transistor 25C828A (Q) or (R)	
Q214~20	V03-9900-05	Transistor 2SC1335 (E)	
Qz21,22	V03-9900-05	Transistor 2SC828A (Q) or (R)	
Qz23	V09-0041-05	FET 3SK30 (A)	
Qz24	V09-0041-05	FET 3SK30 (A) or (B)	
Qz25	V09-0041-05	FET 3SK30 (A)	
Qz26	V09-0041-05	FET 35K30 (A) or (B)	
Qz27,28	V30-0073-05	1C SL-24487-or CD894K	
Dz1, 2	V11-0076-05	Diode 1S1555	
Dz3	V11-0254-05	Diode YZ-140	
Dz4~6	V11-0076-05	Diode 1S1555	
Dz7, 8 Dz9~11	V11-0051-05 V11-0076-05	Diode 1N60 Diode 1S1555	
D29~11 D212,13	V11-0076-05 V11-0051-05	Diode 181888	
		COIL	
1 7 9	1.40.9795.04		
Lz1 Lz2, 3	L40-2735-21 L79-0016-05	Ferri-inductor Low-pass filter	
L22, 5	L40-5635-21	Ferri-inductor	
		ENTIOMETER	
VRz1	R12-1027-05	PC trimmer 2kΩ (B)	
VRz2	R12-4019-05	PC trimmer 50kΩ (B)	
VRz3	R12-1021-05	PC trimmer 1kΩ (B)	
VR24	R12-3030-05	PC trimmer 10kΩ (B)	
VRz5	R12-1027-05	PC trimmer 2kΩ (B)	
VRz6	R12-4019-05	PC trimmer 50kΩ (B)	

Ref. No.	Parts No.	Description	Re- marks
VRz7	R12-1021-05	PC trimmer 1kΩ (B)	
VRz8	R12-3030-05	PC trimmer 10kΩ (B)	
VRz9,10	R01-2008-05	Potentiometer 5kΩ (B)	
VRz11,12	R01-4020-05	Potentiometer 50k Ω (B)	
	М	ISCELLANEOUS	
_	A02-0037-12	Case A (top)	
-	A02-0038-12	Case B (bottom)	
	B42-0441-24	Name plate	
_	B42-0491-04	Serial No. sticker	
_			
	K23-0141-04	Knob x 4	

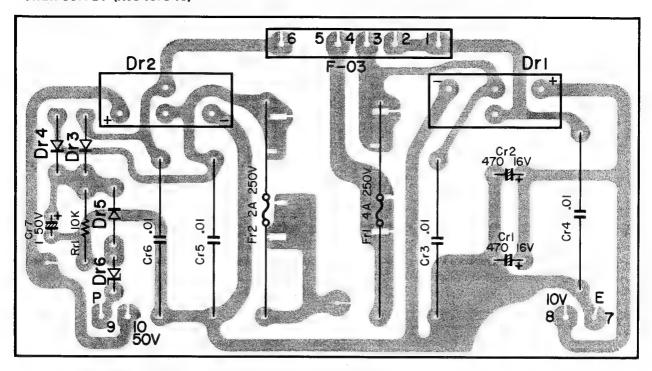
SQ/RM (X15-1170-00)

Ref. No.	Parts No.	De	scription		Re- mark
		CAPACITOR			
Cy1, 2	CE04W1H3R3	Electrolytic	3.3µF	50WV	
Cy3, 4	CQ93M1H104J	Mylar	0.1μF	±5%	
Cy5, 6	CQ93M1H334K	Mylar	0.33μF	±10%	
Cy7, 8	CQ93M1H123J	Mylar	0.012μF	±5%	
Cy9, 10	CQ93M1H104J	Mylar	0.1μF	±5%	
Cy11, 12	CQ93M1H152J	Mylar	0.0015µF	±5%	
Cy13, 14	CQ93M1H103J	Mylar	0.01µF	±5%	
Cy15, 16	CQ93M1H102J	Mylar	0.001µF	±5%	
Cy17, 18	CQ93M1H472J	Mylar	0.0047µF	±5%	
Cy19~24	CE04W1H3R3	Electrolytic	3.3µF	50WV	
Cy25~30	CE04W1H010	Electrolytic	1µF	50WV	
Cy39~41	CE04W1H010	Electrolytic	1μF	50WV	
Cy42~49	CE04W1H4R7	Electrolytic	4.7µF	25WV	
Cy50, 51	CE04W1E100 MBR	Electrolytic	10μF	25WV	
Cy52	CQ93M1H224K	Mylar	0.22µF	±10%	
Cy53, 54	CQ93M1H104J	Mylar	0.1µF	±5%]
Cy55, 56	CE04W1H010	Electrolytic	1#F	50WV	1
Cy57, 58	CQ93M1H223J	Mylar	0.022µF	±5%	
Cy59~62	CQ93M1H102J	Mylar	0.001µF	±5%	
Cy63~66	CC45SL1H100D	Ceramic	10pF	±0.5pF	
Cy67	CE04W1H010	Electrolytic	1μF	50WV	
		RESISTOR			·
Ry1, 2	PD14BY2E824J	Carbon 82	OkΩ ±5%	1/4W	
Ry3, 4	PD14BY2E683J	Carbon 68	kΩ ±5%	1/4W	
Ry5, 6	PD14BY2E224J	Carbon 22	0kΩ ±5%	1/4W	
Ry7~34	PD14CY2E202J	Carbon 2k	Ω ±5%	1/4W	
Ry35,36	PD14CY2E393J	Carbon 39	kΩ ±5%	1/4W	
Ry37,38	PD14CY2E513J	Carbon 51	kΩ ±5%	1/4W	
Ry39.40	PD14CY2E393J	Carbon 39	kΩ ±5%	1/4W	
Ry41,42	PD14CY2E133J	Carbon 13	kΩ ±5%	1/4W	
Ry43,44	PD14CY2E363J	Carbon 36	kΩ ±5%	1/4W	
Ry45,46	PD14CY2E163J	Carbon 16	kΩ ±5%	1/4W	
Ry47,48	PD14CY2E432J	Carbon 4.:	3kΩ ±5%	1/4W	
Ry49,50	PD14CY2E392J	Carbon 3.9	9kΩ ±5%	1/4W	
Ry51~58	PD14CY2E823J	Carbon 82	kΩ ±5%	1/4W	
Ry59,60	PD14CY2E124J	Carbon 12	0kΩ ±5%	1/4W	
Ry61~64	PD14CY2E302J	Carbon 3k	Ω ±5%	1/4W	
Ry65,66	PD14CY2E152J	Carbon 1.5	5kΩ ±5%	1/4W	
Ry67,68	PD14CY2E432J	Carbon 4.3	3kΩ ±5%	1/4W	
					1

Ref. No.	Parts No.	Description	Re- marks
Ry69,70	PD14CY2E112J	Carbon 1.1kΩ ±5% 1/4W	
Ry71,72	PD14CY2E432J	Carbon 4.3kΩ ±5% 1/4W	
Ry73,74	PD14CY2E242J	Carbon 2.4kΩ ±5% 1/4W	
Ry75~77	PD14CY2E432J	Carbon 4.3k Ω ±5% 1/4W	
Ry78,79	PD14CY2E242J	Carbon 2.4kΩ ±5% 1/4W	
Ry80	PD14CY2E432J	Carbon 4.3kΩ ±5% 1/4W	
Ry81~84	PD14CY2E104J	Carbon 100kΩ ±5% 1/4W	
Ry85~88	PD14BY2E102J	Carbon 1kΩ ±5% 1/4W	
Ry89~92	PD14CY2E272J	Carbon 2.7kΩ ±5% 1/4W	1
Ry93~96 Ry97	PD148Y2E102J	Carbon 1kΩ ±5% 1/4W	
Ry98	PD14CY2E433J PD14CY2E272J	Carbon 43k Ω ±5% 1/4W Carbon 2.7k Ω ±5% 1/4W	
Ry99~	PD14CY2E104J	Carbon 2.7k Ω ±5% 1/4W Carbon 100k Ω ±5% 1/4W	
106	101401221043	Carbon 100K32 =5% 1/4VV	
Ry107~	PD14CY2E682J	Carbon 6.8 k Ω $\pm 5\%$ $1/4$ W	
Ry111~ 114	PD14CY2E104J	Carbon 100kΩ ±5% 1/4W	
Ry117	PD14CY2E104J	Carbon 100kΩ ±5% 1/4W	
Ry119	PD14CY2E333J	Carbon 33kΩ ±5% 1/4W	
Ry122	PD14CY2E103J	Carbon 10kΩ ±5% 1/4W	
Ry124	PD14CY2E562J	Carbon 5.6kΩ ±5% 1/4W	
Ry126	PD14CY2E103J	Carbon 10kΩ ±5% 1/4W	İ
Ry128	PD14CY2E103J	Carbon 10kΩ ±5% 1/4W	
Ry138	PD14BY2E221J	Carbon 220Ω ±5% 1/4W	1
Ry140,141 Ry142,143		Carbon 10kΩ ±5% 1/4W	
Ry144,145		Carbon 43k Ω ±5% 1/4W Carbon 220k Ω ±5% 1/4W	
Ry146	PD14BY2E101J	Carbon 220kΩ ±5% 1/4W Carbon 100Ω ±5% 1/4W	
Ry147	PD14CY2E103J	Carbon 10kΩ ±5% 1/4W	
Ry148	PD14BY2E102J	Carbon 1kΩ ±5% 1/4W	1
Ry149∼ 152	PD14CY2E105J	Carbon 1MΩ ±5% 1/4W	
Ry153	PD14CY2E223J	Carbon 22kΩ ±5% 1/4W	
Ry154	PD14CY2E104J	Carbon 100kΩ ±5% 1/4W	
Ry155	PD14BY2E564J	Carbon 560kΩ ±5% 1/4W	
Ry156	PD14CY2E822J	Carbon 8.2kΩ ±5% 1/4W	
Ry157	PD14CY2E123J	Carbon 12kΩ ±5% 1/4W	
Ry158	PD14BY2E471J	Carbon 470Ω ±5% 1/4W	
Ry159,160	PD14CY2E752J	Carbon 7.5kΩ ±5% 1/4W	
Ry161,162	PD14CY2E104J	Carbon 100kΩ ±5% 1/4W	
	SEI	MICONDUCTOR	
Qy1~18	V03-0309-05	Transistor 2SC1345 (D) or (E)	
Qy19	V01-0084-05	Transistor 2SA733 (Q) or (R)	
Qy20,23,	V03-0309-05	Transistor 2SC1345 (D) or (E)	
Qy25	V01-0084-05	Transistor 2SA733 (Q) or (R)	
Qy26~30 Qy31,32	V03-0309-05 V01-0084-05	Transistor 2SC1345 (D) or (E)	
Qv35~38	V01-0084-05 V01-0309-05	Transistor 2SA733 (Q) or (R)	
Qy41	V01-0309-05	Transistor 2SC1345 (D) or (E) Transistor 2SC1345 (D) or (E)	
Qy43	V01-0309-05 V01-0068-05	FET 2SK40 (C) or (D)	
ICy1	V30-0110-05	IC CX-049	
ICy2	V30-0111-05	IC CX-718	
Dy1~12	V11-0273-05	Diode 1S2076	
Dy16~18		Zener diode EQA01-08	
Dy20	V11-0273-05	Diode 1\$2076	
	PO	TENTIOMETER	
VRy1, 2	R12-5026-05	PC trimmer potentiometer 220k?	
VRy3	R12-3041-05	PC trimmer potentiometer 10kΩ	

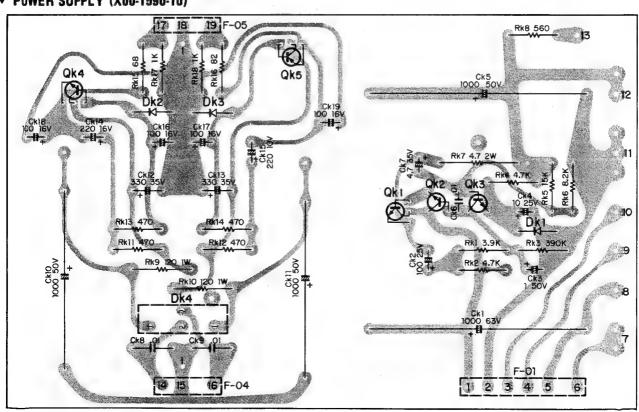
PC BOARD

▼ POWER SUPPLY (X00-1370-10)



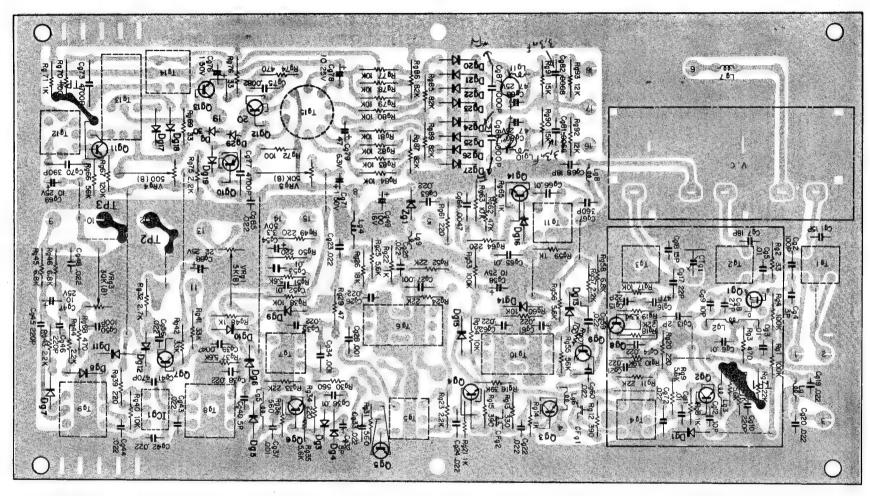
Dr1, 2: SIRB-10 Dr3, 4: W06B Dr5: V06B Dr6: YZ-140

▼ POWER SUPPLY (X00-1590-10)

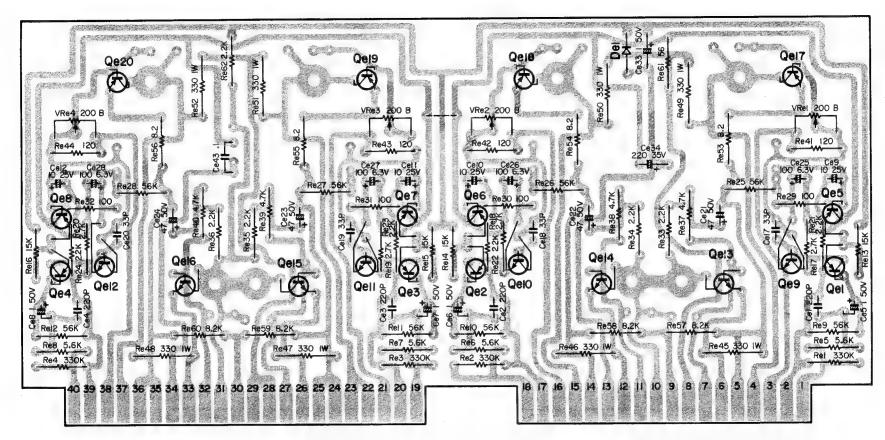


Qk1: 2SC789(O) or (R) Qk2, 3: 2SC1000BL Qk4: 2SC1419(B) or (C)

Qk5: 2SA755(B) or (C) Dk1 ~ 3: YZ-140 Dk4: SIRB-10

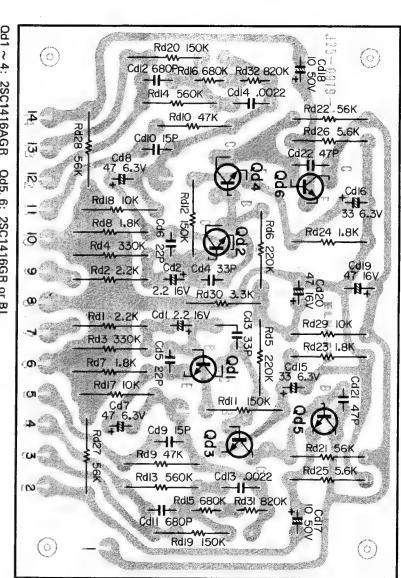


Qg1: 2SK19(GR) or (BL) Qg2 \sim 4: 2SC381(R) Qg5, 6: 2SC535(B) Qg7: 2SC945(Q) or (R) Qg8: 2SC785(R) Qg9, 14: 2SC460(B) Qg10: 2SA733(Q) or (R) Qg11, 12: 2SC458(D) Qg13: 2SC1213A (C) ICg1: TA7060P Dg1, 2, $5 \sim$ 12, $14 \sim$ 18, $20 \sim$ 27: 1N60 Dg3, 4, 13, 19: 1S1555 or 1S2076 Dg29, 30: MV-13 Zg1: DZ-140



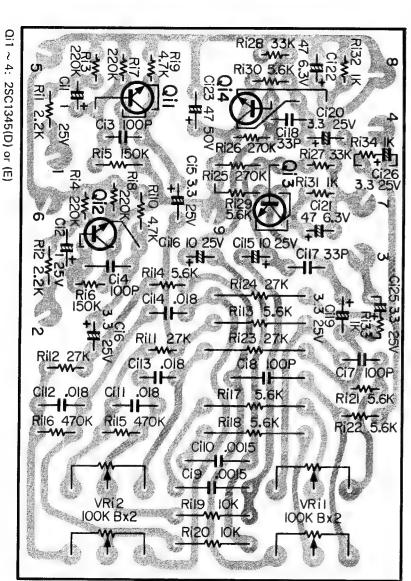
 $Qe1 \sim 8: \ 2SA620WL4 \ or \ 5 \quad Qe9 \sim 12: \ 2SC983(O) \quad Qe13 \sim 16: \ 2SD381(L) \ or \ (M) \quad Qe17 \sim 20: \ 2SB536(L) \ or \ (M) \quad De1: \ YZ-140 \ Approx 12 \ Approx 12 \ Approx 14 \ Approx 14 \ Approx 14 \ Approx 14 \ Approx 14 \ Approx 14 \ Approx 14 \ Approx 14 \ Approx 14 \ Approx 14 \ Approx 15 \ Approx 16 \ Approx 16 \ Approx 16 \ Approx 16 \ Approx 16 \ Approx 16 \ Approx 16 \ Approx 17 \ Approx 16 \ Approx 16 \ Approx 17 \ Approx 16 \ Appr$

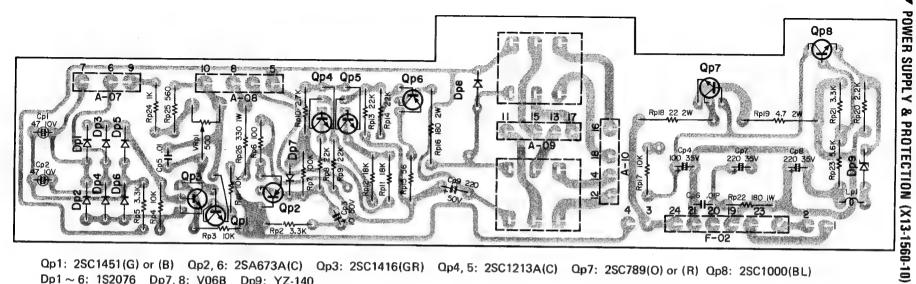
PREAMP (X08-1180-00)



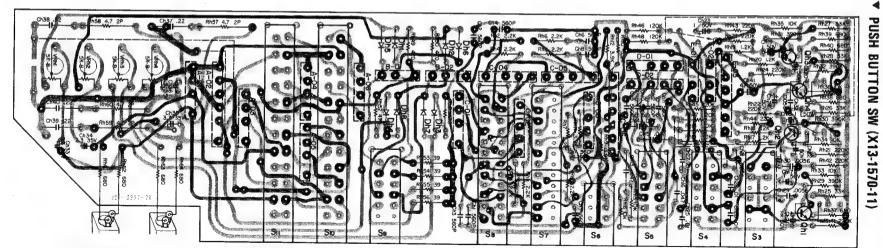
4. 2SC1416AGR Qd5, 9 2SC1416GR or BL

TONE (X11-1130-00)

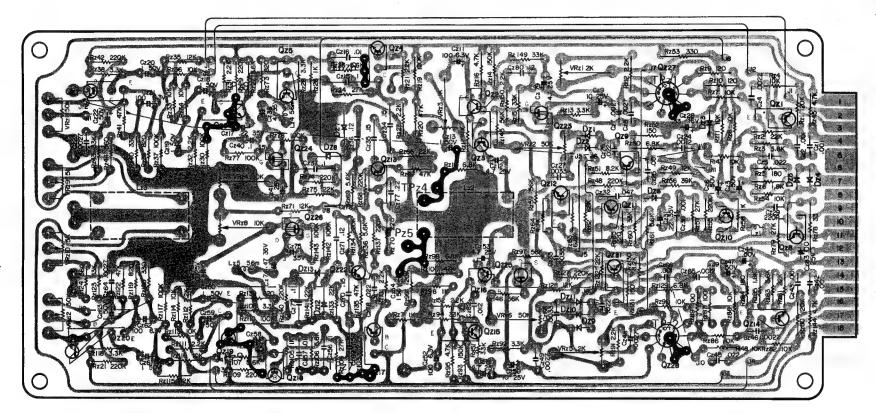




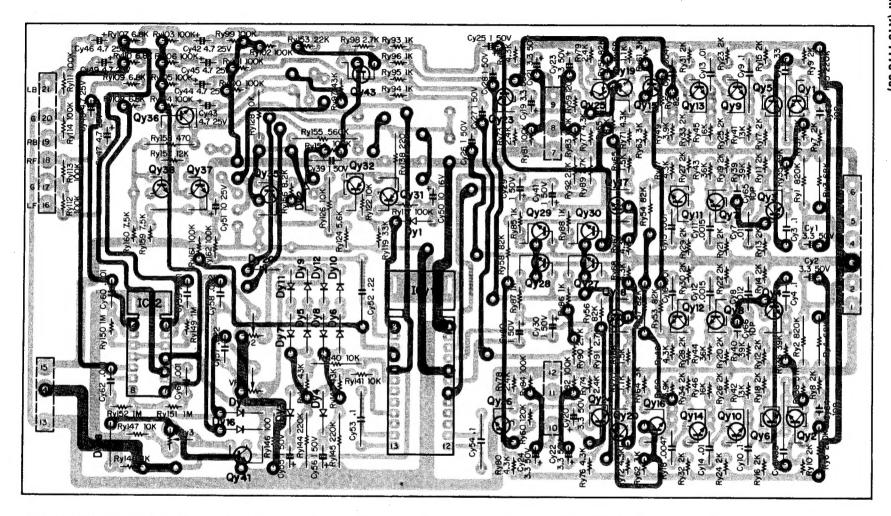
Qp1: 2SC1451(G) or (B) Qp2, 6: 2SA673A(C) Qp3: 2SC1416(GR) Qp4, 5: 2SC1213A(C) Qp7: 2SC789(O) or (R) Qp8: 2SC1000(BL) Dp1 ~ 6: 1S2076 Dp7, 8: V06B Dp9: YZ-140



 $Oh1 \sim 4$: 2SC1345(D) or (E) $Oh1 \sim 8$: 1S1555



 $Qz1 \sim 7$, $14 \sim 20$: 2SC1335(E) Qz8: 2SC828A(S) $Qz9 \sim 13$, 21, 22: 2SC828A(Q) or (R) Qz23, 25: 3SK30(A) Qz24, 26: 3SK30(A) or (B) Qz27, 28: SL24487 Dz1, 2, $4 \sim 6$, $9 \sim 11$: 1S1555 Dz3: YZ-140 Dz7, 8, 12, 13: 1N60

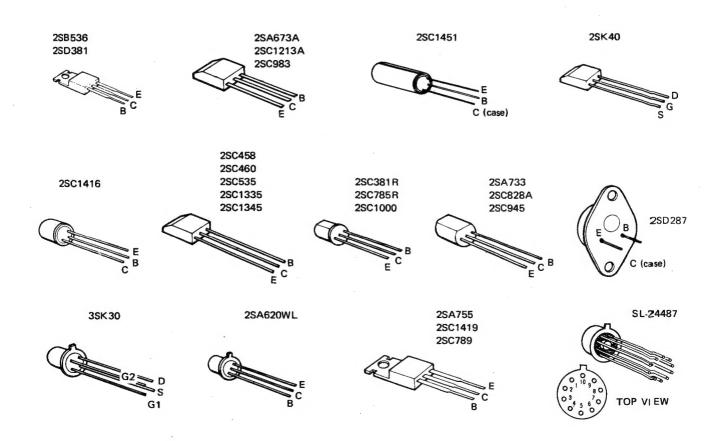


 $Qy1 \sim 18, 20, 23, 24, 26 \sim 30, 35 \sim 38, 41$: 2SC1345(D) or (E) Qy19, 25, 31, 32: 2SA733(Q) or (R) Qy43: 2SK40(C) or (D) ICy1: CX-049 ICy2: CX-718 $Dy1 \sim 12, 20$: 1S2076 $Dy16 \sim 18$: FQA01-08

SEMICONDUCTOR SUBSTITUTIONS

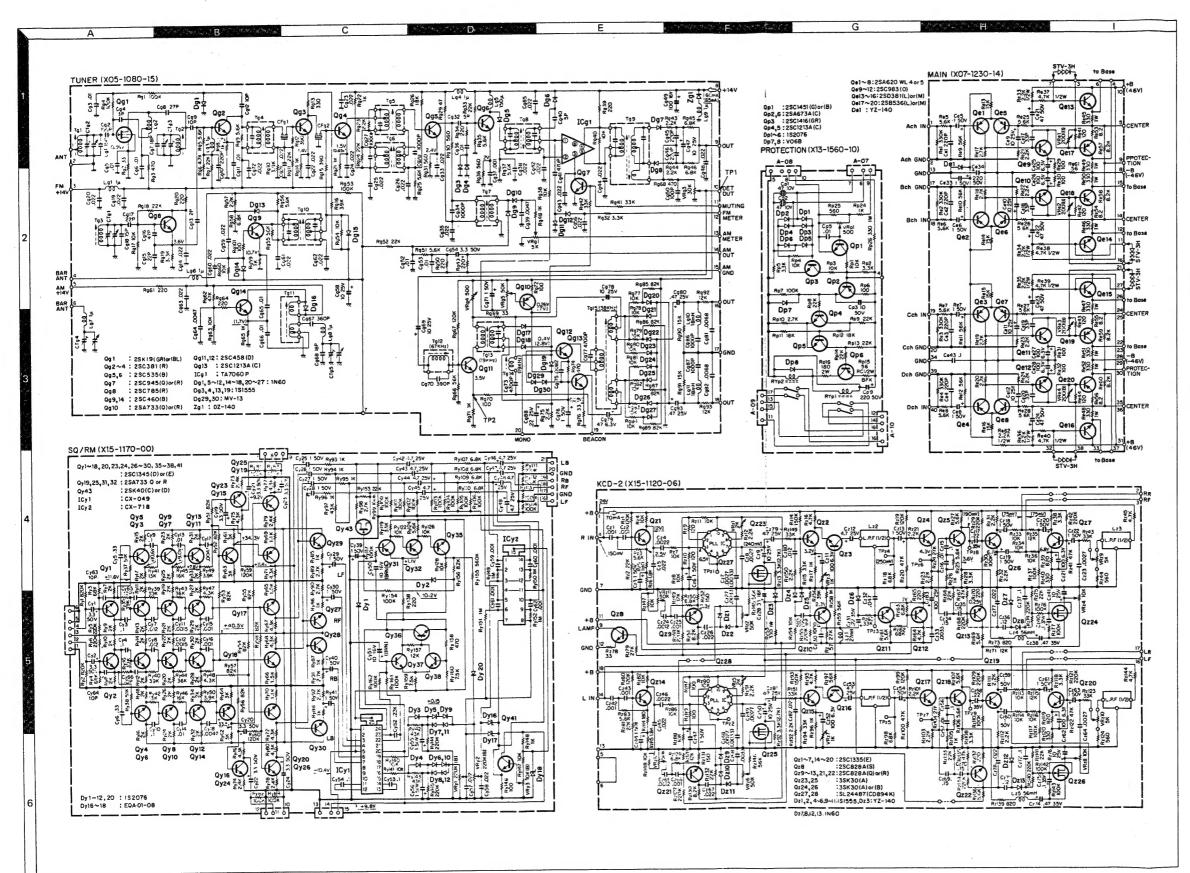
2SA489(O) or (R)
2SC1061
2SC1345(E)
2SC1061, 2SD234
2SA620WL(4) or (5)
2SC380, 2SC460, 2SC535,
SE-3001
2SC1000(GR), 2SC1345(D)
_
2SC381(R)
_
_
2SC734(Y), 2SC984(C)
3SK30(B) or (C)
_
,
2SA493(GR)
2SA653(L) or (M)
2SC1451(G), (B) or (V)
2SC1161(L) or (M)
2SC1000(GR) or (BL),
2SC1345(D) or (E)
2SC1000(GR) or (BL),
2SC1345(D) or (E)

SEMICONDUCTOR NAME	SUBSTITUTIONS
TONE AMP (X11-1130-00)	
2SC1345(D) or (E)	2SC1000(GR) or (BL), 2SC1416
POWER SUPPLY &	·
PROTECTION (X13-1560-10)	
2SA673A(C)	2SA743A(C)
2SC789(O) or (R)	2SC1061 (B) or (C)
2SC1000(BL)	2SC1000(E), 2SC1416A(BL)
2SC1213A(C)	2SC743, 2SC984, 2SC1212A
2SC1416(GR)	2SC1000(BL), 2SC1345(E)
2SC1451(G) or (B)	2SC983(O) or (Y)
PUSHBUTTON SW (X13-1570-11) 2SC1345(D) or (E)	2SC1000(GR) or (BL), 2SC1416
CD-4 (X15-1120-06)	
2SC828A(Q) or (R)	2SC1000(GR) or (Y)
2SC828A(S)	2SC1000(GR), 2SC1345(D)
2SC1335(E)	2SC1000(BL), 2SC1345(E)
3SK30(A) or (B)	_
3SK30(A)	-
SL-24487 (CD-894K)	-
SQ/RM (X15-1170-00)	
2SA733(Q) or (R)	2SA620WL(4) or (5)
2SC1345(D) or (E)	2SC1000(GR) or (BL)
2SK40(C) or (D)	2SK30(Y) or (GR)
CX-049	_
CX-718	-



KR-9940 (KR-9040)

KR-9940 (KR-9040) KR-9940 (KR-9040)



VOLTAGE TABLE

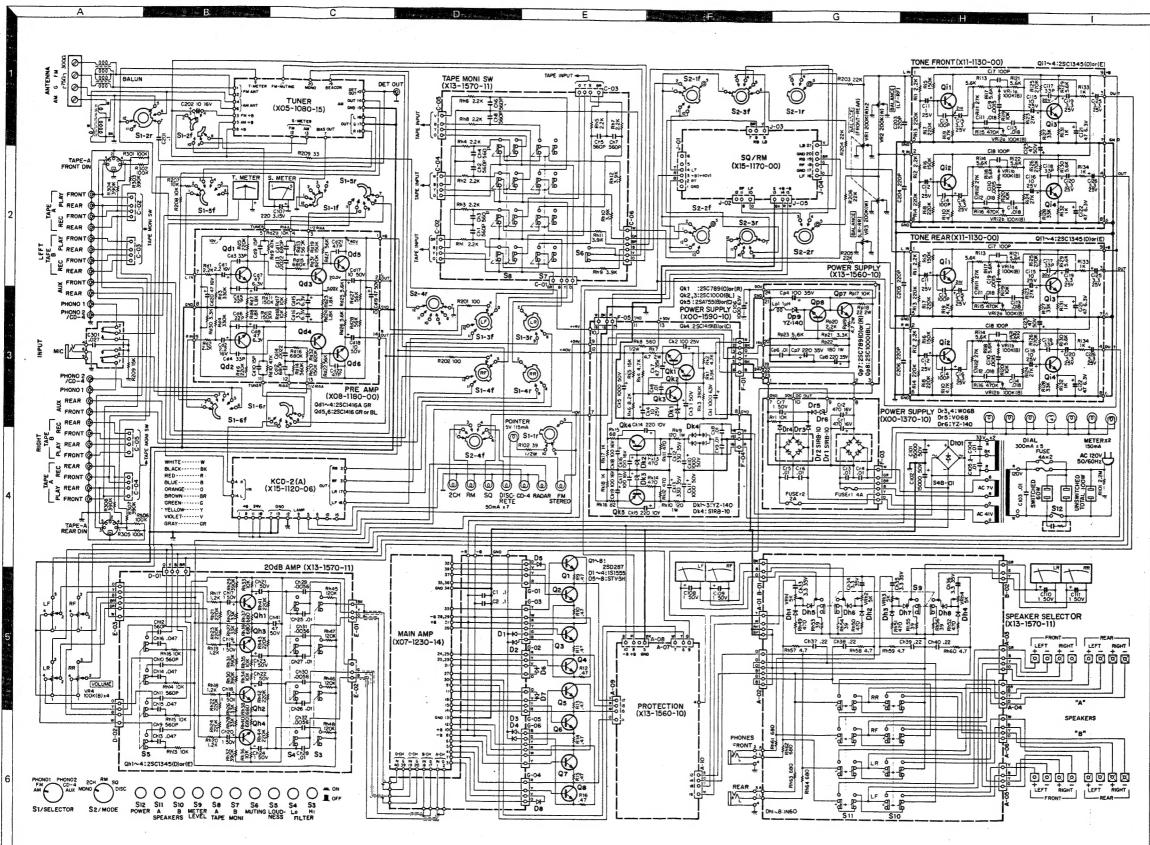
	VOLTAGE	TABLE	
	X00-15	90-10	
	Ε	С	В
Qk1	42V	59V	42.5V
Qk1	43V	59V	43V
Qk3	14V	43V	14.6V
Qk4	14V	36V	14.5V
	140	-38V	-14.5V
Qk5	140	-38V	~14.50
	X07-1230	-13, -14	
	E	С	В
Qe1~4	.65V	-42V	V80.
Qe5∼8	.65V	-42V	.1V
Qe9∼12	-41V	55V	-41V
Qe13~16	.65V	-44V	1.1V
Qe17~20	.08V	-44V	55V
Del	14.6V		
	X11-11	30-00	
	E	С	В
0:1.2	17V	30V	16V
Qi1,2	2.4V	16V	2.7V
Qi3.4	2.40	100	2.7 V
	X13-15	60-10	
	E	С	В
Qp1	-44.5V	26V	-45V
Qp2	26V	ov	26V
Qp3	ov	26V	0∨
Qp4	5V	15V	0 ∨
Qp5	5V	5V	5.4V
Qp6	24V	23V	24V
Qp7	24V	58V	25V
Qp8	14V	24V	14.5V
	X13-15	70-10	
	E	С	В
214			
Qh1~4	2.3V	7V	2.7V
	X07-1230	0-13, -14	
No. 1	ov	No. 21	~.5 4 -V
No. 2	ov	No. 22	~44·V
No. 3	ov	No. 23	-44V
No. 4	-44V	No. 24	ov
No. 5	.08V	No. 25	ov
No. 6	.67V	No. 26	.6∨
No. 7	1.21V	No. 27	1.1
No. 8			-46/ (40V
	-46V (-40V)	No. 28	
	-46V (-40V)	No. 28 No. 29	1
No. 9	ov	No. 29	-46/ (-40V
No. 9 No. 10	0V 46V (40V)	No. 29 No. 30	-46/ (40V OV
No. 9 No. 10 No. 11	0V 46V (40V) 1.4V	No. 29 No. 30 No. 31	0V 46/ (4-0V)
No. 9 No. 10 No. 11 No. 12	0V 46V (40V) 1.4V .65V	No. 29 No. 30 No. 31 No. 32	0V 46/ (4-0V)
No. 9 No. 10 No. 11 No. 12 No. 13	0V 46V (40V) 1.4V .65V 0V	No. 29 No. 30 No. 31 No. 32 No. 33	-46/ (-40V) 0V 46/ (4.0V) 1.2V 65V
No. 9 No. 10 No. 11 No. 12 No. 13 No. 14	0V 46V (40V) 1.4V .65V 0V	No. 29 No. 30 No. 31 No. 32 No. 33 No. 34	-46/ (-40V) 0V 46/ (4.0V) 1.2V 65V 0V
No. 9 No. 10 No. 11 No. 12 No. 13 No. 14 No. 15	0V 46V (40V) 1.4V .65V 0V 0V -44V	No. 29 No. 30 No. 31 No. 32 No. 33 No. 34 No. 35	-46/ (-40V) 0V 46/ (4.0V) 1.2V 65V 0V
No. 9 No. 10 No. 11 No. 12 No. 13 No. 14 No. 15 No. 16	0V 46V (40V) 1.4V .65V 0V 0V -44V 48V	No. 29 No. 30 No. 31 No. 32 No. 33 No. 34 No. 35 No. 36	0V 467 (4-0V) 1.2V 65V 0V 0V 0V
No. 9 No. 10 No. 11 No. 12 No. 13 No. 14 No. 15 No. 16 No. 17	0V 46V (40V) 1.4V .65V 0V 0V -44V 48V 0V	No. 29 No. 30 No. 31 No. 32 No. 33 No. 34 No. 35 No. 36 No. 37	0V 46/ (4-0V) 1.2V 65V 0V 0V 0V -44-V
No. 9 No. 10 No. 11 No. 12 No. 13 No. 14 No. 15 No. 16 No. 17	0V 46V (40V) 1.4V .65V 0V 0V -44V 48V 0V	No. 29 No. 30 No. 31 No. 32 No. 33 No. 34 No. 35 No. 36 No. 37 No. 38	0V 46/ (4-0V) 1.2V 65V 0V 0V 0V -44-V 5V
No. 9 No. 10 No. 11 No. 12 No. 13 No. 14 No. 15 No. 16 No. 17	0V 46V (40V) 1.4V .65V 0V 0V -44V 48V 0V	No. 29 No. 30 No. 31 No. 32 No. 33 No. 34 No. 35 No. 36 No. 37	0V 467 (4-0V) 1.2V 65V 0V 0V 0V -44-V

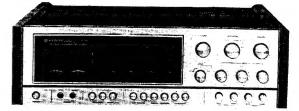
(): X07-1230-13



FOUR CHANNEL RECEIVER

(KR-9040) KR-9040





SPECIFICATIONS

FM TUNER SECTION

Usable Sensitivity (IHF)
Quieting Slope
Frequency Response
Harmonic Distortion

Signal to Noise Ratio
Image Rejection
Selectivity (IHF ALT channe
IF Rejection
Spurious Signal Rejection
AM Suppression
Capture Ratio

Sub Carrier Suppression

AM TUNER SECTION

Usable Sensitivity (IHF) Signal to Noise Ratio Image Rejection Selectivity (IHF) 1F Rejection

POWER AMPLIFIER SECTION

RMS Power Output 4 channels driven

Dynamic Power Output

Total Harmonic Distor

Inter Modulation Distortion (60 Hz : 7 kHz = 4 ; 1) Power Bandwidth

Power Bandwidth
Damping Factor
Speaker Impedance

PRE-AMPLIFIER SECTION

Phono 1 Phono 2 AUX Tape Play A, B Mic

Maximum Input Voltage (rm Phono 1, 2 Signals to noise Ratio (IHF A

Signals to noise Ratio (II Phono 1, 2 AUX

Tape Play A, B Mic Output Voltage and Im Tape Rec. A, B (pin

(Din connecto Frequency Response Phono 1, 2 AUX. Tape Play

Tone Control
Bass
Treble
Loudness Control (-30 dB

Low Filter 100 Hz High Filter 10,000 h

GENERAL

Speaker Selector input Selector Mode Tape Monitor Others

AC Outlets
Power Consumption

Dimension

Dimension

60 d8 50 d8 90 d8 90 d8 80 d8 30 d8 40 d8 at 1,000 Hz 20 d8 at 10,000 Hz 45 d8 300 ohms Balanced and

0.5% Mone (at 400 Hz 100% modulation) 0.8% Stereo (at 400 Hz 100% modulation)

1.8 µV (1.9 µV) 5 µV 50 dB KR-9940 only 20 Hz ~ 15,000 Hz ± 1.2 dB

75 ohms Unbalanced

25 µV

45 dB at 1 mV input

45 dB
30 dB

30 dB 35 dB Built-in ferrite bar antenna

External antenna terminals

50 watts x 4 into 8 ohms at 20 Hz ~ 20,000 Hz 52 watts x 4 into 8 ohms at 1,000 l 58 watts x 4 into 4 ohms at 1,000 l

52 watts x 4 into 8 onms at 1,000 Hz 58 watts x 4 into 4 ohms at 1,000 Hz 340 watts into 8 ohms 440 watts into 4 ohms 0.5% at rated power into 8 ohms 0.1% at 1/2 rated power

into 8 ohms at 1,000 Hz
0.5% at rated power into 8 ohms
0.5% at 1/2 rated power into 8 ohms
10 Hz ~ 45,000 Hz
30 at 8 ohms
Accept 4 ohms to 16 ohms

one 1 2.0 mV 10

2.0 mV 100 K ohms 2.0 mV 100 K ohms 200 mV 50 K ohms 200 mV 50 K ohms 2.5 mV 50 K ohms

120 mV T.H.D. 0.5% at 1,000 Hz :URVE) 70 dB

80 dB 80 dB 70 dB 200 mV 100 ohms

40 mV

RIAA Standard curve ±1.0 dB

20 Hz ~ 20.000 Hz ± 1.0 dB

±10 dB at 100 Hz ±10 dB at 10,000 Hz +8 dB at 100 Hz +6 dB at 10,000 Hz

+6 dB at 10,00 --9 dB --9 dB

Selector A.B (push switch)
elector AM, FM, PHONO 1, PHONO 2, CD-4, AUX

MONO, 2 CH, RM, SQ LOGIC, DISCRETE A, B (A -> B DUBBING) MUTING, LOUDNESS, LOW FILTER, HIGH FILTER Switched 1, Unswitched 2 730 watts at full power

61 watts at no signal W 21-1/32" (534 mm), H 6-3/8" (162 mm.) D 14-5/32" (360 mm) 46.2 lbs (21 kg)